NR9/200.10/1916



Fourth Annual Report

OF THE

State Inspector of Coal Mines

1916



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DENVER, COLORADO
EAMES BROS., STATE PRINTERS
1916

CONR C6 1916 C.2

PERSONNEL OF THE STATE COAL MINING DEPARTMENT

FIELD AND OFFICE

James Dalrymple		Chie	f Ins	pecto)1
HENRY P. KING	Deputy	Inspector,	Dist.	No.	1
Frank N. Oberding	Deputy	Inspector,	Dist.	No.	2
James W. Graham	Deputy	Inspector,	Dist.	No.	3
A. E. Thompson	Deputy	Inspector,	Dist.	No.	4
Ada R. Tibbits		,	Chief	Cler	·k
Birdie Dorsey		Assi	stant	Cler	·k

LETTER OF TRANSMITTAL

To His Excellency,
JULIUS C. GUNTER,
Governor of the State of Colorado.

Sir: Herewith I have the honor to submit to you, in accordance with Section 37 of an Act entitled "Coal Mining Laws," the Fourth Annual Report of this Department. The period covered began January 1st and ended December 31st, 1916.

Respectfully,

JAMES DALRYMPLE, Chief Inspector of Coal Mines.



STATEMENT SHOWING RECEIPTS AND DISBURSE-MENTS FROM JANUARY 1 to DECEMBER 31, 1916

RECEIPTS

Tax collected on coal mined	
Total	\$53,462.66
DISBURSEMENTS.	
Salary of chief inspector \$ 3,000.00 Salaries of four deputy inspectors 8,400.00 Salary of chief clerk 1,500.00 Salary of assistant clerk 1,200.00 Expenses of chief and deputies 3,946.00 Mileage books for chief and deputy inspectors 1,281.99 Office expenses— 400.00 Printing 1,846.90 Stamps 400.00 Typewriter and stand 73.13 Stationery supplies, etc. 178.87 Telephone service 61.81 Telegraph service 25.09 Express 2.79 Extra clerical help 280.00 Miscellaneous 75.85 Instruments, anemometer, repairs and other apparatus 133.39 Four Ford automobiles and equipment 2,205.01 Electrical supplies, batteries for flash lights 75.04	
Total	24,690.87
Surplus	\$28,771,79

FIELD EQUIPMENT

Twelve Anemometers.
Five Speedometers.
Four Pschycrometers.
Five Marsant Safety Lamps.
Five Koehler Safety Lamps.
One Aneroid Barometer.
Four Ford Automobiles and Equipment.

SUMMARY OF THE COAL PRODUCTION OF COLORADO, 1916

Number of mines operated	
Number of new and old mines opened	8
Number of mines closed, 8; abandoned, 5; total	13
Tons of lignite coal produced	2,035,527
Tons of semi-bituminous produced	794,209
Tons of bituminous coal produced.	7,945,366
Tons of anthracite coal produced	47,083
Total number of tons of cooal produced	10,822,185
Increase in 1916	1,806,788
Tons of run-of-mine coal produced	4,428,043
Tons of lump coal produced	2,926,047
Tons of nut coal produced	656,522
Tons of slack coal produced	
Per cent of slack	44.+
Tons mined by shooting off the solid.	785,939
Tons of coal mined by hand	6,940,925
Tons of coal mined by machine	3,095,321
Total number of machines used: air, 150; electric, 133; total	283
Tons of coal shipped out of state	1,794,563
Average number of days worked for all producing mines	175.8
Pounds of carbide used (approximately)	
Gallons of illuminating oil used (approximately)	9,211
Number of electric lamps used: Edison, 143; Manneson, 90; Victor,	4 500
538; Wico, 818; total	1,589
Number of men employed as miners	
Total number of men employed in and about the mines	
Daily production of each miner—average	
Total number of tons of coke produced	
Total number of men employed at coke ovens	
Number of kegs of black powder used (approximately)	
Number of pounds of permissible powder used (approximately)	721,122 40,392.00
Number of men killed underground	39
Number of men killed on surface	5 5
Total number of men killed.	
Number of men injured	
Number killed per 1,000 employed	3.35
Number injured per 1,000 employed	67
Number of tons produced for each life lost.	239,095
Number of tons produced for each non-fatal accident	
Number of men employed for each fatal accident	
Number of men employed for each non-fatal accident	15
Number of widows left.	28
Number of children left fatherless	56

NOTE—In enumerating mines opened and closed, these apply usually to very small country banks which come and go under different names in different localities, probably as a demand for a wagon load of coal prompts some enterprising miner or farmer to get a lease on some old mine and work it for a short time and then give it up or sub-lease it. This accounts for so many new names of mines that open and close during the course of each year.

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Fourth Annual Report

OF THE

State Inspector of Coal Mines 1916

INTRODUCTION

The condition of the coal industry for this year shows marked improvement over the preceding year, both in production, market price and wages paid. The production amounted to 10,522,185 tons. Fourteen of the nineteen coal-producing counties contributed to the increase, which was 1,806,788 tons; 1,257,131 tons of the total was in run-of-mine, the bulk coming from Las Animas County. This was used at the steel works, either as coal or in the form of coke. The coke production amounted to 987,977 tons, an increase of 316,523 tons, compared with the preceding year. The selling price of coal advanced materially in the fall of the year, and the workers have received an increase in wages.

The monthly and annual reports from the operators, with few exceptions, are so incomplete that it is practically impossible for this department to give the full information required by law. The Federal Government has adopted a standard for mining statistics, a copy of which is hereto attached. The principal object of this is to make all coal mine inspection reports uniform, and to eliminate duplicate reports now made by the mine owners to the different state and federal institutions. The monthly and annual report forms furnished the operators by this department have been changed to conform with the federal requirements. The attention of the operators is drawn to the importance of filling in all details of the aforesaid reports, in order that this department may comply with the new statistical requirements. It will no longer be necessary for operators to report non-fatal accidents to this department, as arrangements have been made to get this information from the Industrial Commission.

Fourteen proposed amendments to the mining law are now being considered by the legislature, the object being to make the law more specific and to conform with the state compensation law.

Two mines were temporarily closed because of dangerous conditions.

One shot-firer's certificate was revoked for failure to do his

duty.

There are fourteen mines that employ between five and ten men; forty-seven that employ five or less; fourteen that work between fifty and seventy-five days, and eight that work less than twenty-five days. Such mines reduce materially the average number of days worked by coal mines in the state. The average number of inspections made per mine by districts during the year is as follows:

Dist. 1: 3.15; Dist. 2: 4.52; Dist. 3: 3.50; Dist. 4: 2.46,

being an average for the whole state of............3.41 inspections.

It is evident from the above figures that the mines have not been inspected every ninety days, or four times a year, as required

by our present law.

Our inspectors were obliged to spend considerable time adjusting tipple scales, thus seriously retarding inspection work. There are no technical scale men in the department, and this work has not been done satisfactorily. We are, therefore, of the opinion something should be done to relieve this situation.

Miles traveled by the Inspectors in the performance of their duties amounted to 59,514, an increase of 22,514 miles over 1915.

The number of shot-firers' certificates issued during the year

is as follows: For gaseous mines, 97; non-gaseous mines, 95.

The demand for first- and second-class mine foremen and firebosses during the year was greater than the supply. To meet conditions, examinations for mine officials should be held as early as possible.

A great many of the small operators are continually delinquent in filing their monthly and annual reports, and it is only after much correspondence that the department is able to get them at all. This causes the department a great deal of unnecessary trouble and expense, as well as hampering the work, and practically making it impossible for the office to fulfill the requirements of the law relating to the compiling of statistics.

It is urged upon all operators, who have hitherto neglected this matter, to make such effort in the future as will obviate the neces-

sity of this office taking legal action.

During the year forty-four lives have been lost in and around the mines, as follows:

Underground men 39, and surface men 5, compared with 64 in 1915.

The number killed per 1,000 was reduced from 5.1 to 3.35.

The tonnage produced per life lost increased from 136,178 to 239,140.

This is a very creditable record, and has been obtained by the coal companies having their properties more carefully managed, and by more complete co-operation on the part of the employees.

The responsibility for the above enumerated fatalities, reported by our inspectors, is as follows:

Fault of deceased 12
Neglect of owner
Deceased and owner
To co-worker
Unavoidable17
Unable to place
Total fatalities44

The non-fatal accidents number 819, compared with 712 in 1916. The tonnage produced per non-fatal accident amounted to 11,836, compared with 12,241 in 1915, and the number injured per 1,000 employed increased from 56.70 to 70.57.

On the face of these figures, it would appear that such accidents have increased; but it should be remembered that operation of the Compensation Act has resulted in establishing much more complete record of such accidents. This Act went into effect August 1, 1915, so affecting only the last five months of the year.

Kenneth H. Chisholm, of the Bureau of Mines, during the year gave instructions in first aid and helmet work to the men in different parts of the state. Mr. Chisholm seems to be the right man in the right place, as he never fails to obtain a good class wherever he goes, and has, by his ability and earnestness in the work, obtained the confidence of the miners, which has resulted in excellent work being done.

The State University of Boulder has commenced its extension work by opening three schools in Boulder County, one at Louisville, one at Marshall, and one at Superior. The principal subjects taught are English, citizenship, and arithmetic, and cannot help but improve the general conditions of the industry, and we earnestly hope that it will be extended until it reaches every camp in the state.

We appreciate the response of the operators to the recommendations made by the inspectors; also to the workers for their greater caution and care in performing their duties, and sincerely hope it will continue, as it is only by co-operation and intelligent service that we can hope to better protect life and property.

In conclusion, I wish to tender to all employees of this department my thanks and appreciation of their loyal and able assistance.

Respectfully submitted,

JAMES DALRYMPLE, Chief Inspector of Coal Mines.

SAMPLE TABLES

SHOWING FORMS OF STANDARDIZED COAL STATISTICS ADOPTED BY THE UNITED STATES BUREAU OF MINES, AND WHICH WILL BE THE FORMS USED IN THE FIFTH ANNUAL REPORT OF THIS DEPARTMENT

FORM 1—Form for reporting coal mine equipment, production and employes.

1 Directory.	1. Name of company 2. Name of mine
2 Power, Pump and Haulage Equipment.	A. POWER PLANT: 1. Cylindrical boilers No. Total H. P. 2. Tubular boilers No. Total H. P. 3. Steam engines No. Total H. P. 4. Internal comb. eng. (gas) No. Total H. P. 5. Dynamos No. Total H. P. 6. PUMPS: 1. Number No. Total K. W. 8. PUMPS: 2. Total capacity in gallons per minute Number of pumps delivering water to surface Surface. 4. Approximate number of gallons per minute delivered to surface. 6. HAULAGE:
	C. HAULAGE: 1. Number of horses and mules
3 Ventilating Equipment.	1. Name of operator and mine 2. Kind of opening:

^{*}A gaseous mine is one generating explosive gas in quantities sufficient to be detected by an approved safety lamp.

SAMPLE TABLES—Continued

SHOWING FORMS OF STANDARDIZED COAL STATISTICS ADOPTED BY THE UNITED STATES BUREAU OF MINES, AND WHICH WILL BE THE FORMS USED IN THE FIFTH ANNUAL REPORT OF THIS DEPARTMENT

4 Machine, Pro- duction and Explosives	A. MACHINES: 1. Compressed air, number of
	6. Coal mined by machines, short tons
	A. UNDERGROUND EMPLOYEES (Average): Number.
5 Men Employed at Coal Mines.	1. Foremen 2. Assistant foremen 3. Firebosses 4. Pick miners 5. Machine miners 6. Machine runners and scrapers 7. Shot firers 8. Drivers and runners 9. Motormen and assistants 10. Doorboys and helpers 11. Trackmen and brattice men 12. Timbermen and rockmen 13. Pump and pipemen 14. Electricians and helpers 15. All others Total underground B. SURFACE EMPLOYEES (Average): Number 1. Superintendents 2. Foremen 3. Blacksmiths and carpenters 4. Engineers and firemen 5. Machinists and helpers 6. Trackmen and helpers 7. All others at mine 8. Coke employees 9. Office employees Total surface Total at mines
6 Days Worked.	C. Number of days mine was operated each month during year: Jan. Feb. March April Aug. Sept. Oct. Nov. Dec. D. Number of days coke ovens were operated during year

(Signed).....

Date.....

Superintendent or Manager.

SAMPLE TABLES—Continued

SHOWING FORMS OF STANDARDIZED COAL STATISTICS ADOPTED BY THE UNITED STATES BUREAU OF MINES, AND WHICH WILL BE THE FORMS USED IN THE FIFTH ANNUAL REPORT OF THIS DEPARTMENT

FORM 3. Proposed standard schedule for accident reports. FIRST REPORT OF INJURY TO EMPLOYEE.

a. A reportable injury shall be one that causes any loss of time, or requires any medical attention.

To be filled out by operator and sent in within 7 days of the accident, except that fatal accidents are to be reported at once.

CIIC	te latar accidents are to be reported at once.
1 Employer, Place and Time.	(a) Employer's name (b) Office address—street and number City or villoge (c) Business (minerals or metals produced) (d) Name of mine (quarry, mill, smelter or plant) Post office County (e) Date on which accident occurred (f) Hour of day (g) Hour injured person began work that day (h) Name of foreman, or person in immediate charge
2 Injured Person.	(a) Name
3 Cause.	(a) Where did accident occur (b) If at mine, state whether in mine or on surface (c) If at mine, state mining method (d) Name of machine, tool, or appliance in connection with which accident occurred. (c) Was machine, or appliance, properly guarded? (Yes or no); if "yes" describe character of guard. (f) Give immediate cause of accident (g) Describe fully how accident happened (h) Were there any eye witnesses
4 Nature and Extent of Injury.	(a) Was accident fatal? If so, give date of death (b) State exactly part of person injured and nature of injury (c) Did injury cause loss of any member or part of a member? If so, describe exactly (d) Attending physician or hospital where sent: Name and address (e) Has injured person returned to work

SAMPLE TABLES—Continued

SHOWING FORMS OF STANDARDIZED COAL STATISTICS ADOPTED BY THE UNITED STATES BUREAU OF MINES, AND WHICH WILL BE THE FORMS USED IN THE FIFTH ANNUAL REPORT OF THIS DEPARTMENT

5 Supplemental Report.	If employee is disabled detach here, sending in supplemental report upon return to work, in any event, at the end of 30 days. If employee is not disabled, or if death resulted, fill in but do not detach. 1. Date of previous report. 2. Name of employer. 3. Office address: Street and No

MINING PRICES PAID AT THE VARIOUS COAL MINES IN COLORADO, JANUARY 1, 1917

BOULDER COUNTY—		
	Hand Loading Aft Mining Machines	ter
Simpson		0.0
StandardVulcan		69
Mitchell	.52 to .65 .45	
Rex No. 1 Hecla	.65 to .72 .45 to .5	$58\frac{1}{2}$
Gorham	.62 .41 to .0	63
Industrial	.65 .62 .58	
Monarch No. 1	.63 to .65 .43 to .4	48
Centennial	$.71\frac{1}{2}$ $.48\frac{1}{2}$ $.62$ $.40$	
Centennial Fox—(over 6 feet) (under 6 feet) Matchless	.68 % .46	
Matchless	.72 .48½ .45½	
Sunnyside Nonpareil	.40 hr50	
Black Diamond	.381/2	
DELTA COUNTY-		
Winton	\$3.00 day	
Green Valley	.70 ton	
Red Mountain Farmers Mine		
King	.45	
StateBlack Diamond	.60 45	
Bennett	.75	
Converse Rollins		
Farmers (Leroux Creek)		
EL PASO COUNTY—		
El Paso	.63	
Rapson No. 2	.59 .37	
Danville	.59	
Franceville		
FREMONT COUNTY—		
Smith Larner	80	
Williamsburg Slope	.80	
Double Dick	9.0	
Brookside	. day	
Royal Gorge		
	.75 .78	
CD 31 - 37 - 0	.85	
Chandler No. 2	.90 .93 .50 .90 .93 .50	
Nonac	.75	
Fremont—under 4 ft	.83 \$1.35 lump .78 or	
4 ft. 8 in. over	.73 10c screenir	ıgs
Coal CreekRockvale		
Emerald	.83 .58	
Wolf Park	.75	
GARFIELD COUNTY-		
Harvey Gap	3.25 to 3.50 day	
South Canon	Paid by yard	
Garfield (pitching vein) Midland (pitching vein)	9.00 per yard	
Midland (pitching vein)	5.50 and 7.00 yard	

MINING PRICES—Continued

	.,	COME	mon		
GUNNISON COUNTY—		Hand		Look	line Aften
	1	Hand Mining			ling After achines
Baldwin Star		ton			
Smith Anthracite	.90	forked	l coal		
Bulkley Horace Porter Alpine	1.00				
Porter	.521	1/2			
Alpine	.60	-			
Floresta	.81				
Somerset	.45			.45	
HUERFANO COUNTY—					
Reliance	.60	and	.65	.45	
Tioga	.58			.48	
Cameron	.63	4.0		.421/2	R10½
Pryor	.65	to	.75	.38	to .45
Walsen	.63			.42 1/2	R10 ½
Robinson Pictou	.63			.42 1/2	R10½
Pinon	.63 .65			.42 1/2	R10½
Sunnyside	.55			.43	
Ideal	.63				
Lester Rouse	.63				
Ravenwood Breen	.95		.98		
Breen		/2		.40	
Larimore	.75			.60 $.40$	
Mutual Çaddell	.74			.53	
Loma	.65			.40	to .45
Big Four	.58	and	.60	.43	A
Oakdale	.00	*		.42 1/2	Arcwall Puncher
Gordon	.65			.50	
Turner	.63			.40	to .42½
Solar	$.60 \\ .70$			$.63 \\ .45$	to .50
Rugby No. 3	.60			• 10	.00
Toltec	.70			.46	•
JACKSON COUNTY—					
Coalmont	.45		.50		
	.10		.50		
JEFFERSON COUNTY—	20		0.0		
Leyden	3.00	day	.39		
Justific	5.00	uay			
LAS ANIMAS COUNTY—					
McLaughlin	.58				
Superior	.75				
Jewel	.60	and	.70	. 40 4	550
Tobasco	.58				
Frederick Primero	.58 .58				
Sopris—4 ft. 3 in. and over	.58				
3 ft. 9 in. and over	.63				
Starkville	.68 .58				
Morley	.58				
Piedmont	.58				
Forbes	$.58 \\ .55$.58		
Ludlow	.53			.38	
Primrose	.60	to :	1.00	.45	
Bowen	.55 .55		.58		
Gray Creek Black Diamond	.55		.58		
Black Diamond	.70				

MINING PRICES—Continued

LAS ANIMAS COUNTY—Continued.				
		Hand Mining		Loading After Machines
Cokedale Berwind Royal	58			.44
Royal	58			.42½ R10½
Delagua	55		.58	.34 1/2
Delagua Keystone No. 2	80			
Rapson No. 1 Jeffrey	63		.66	.45
			.58	
Wooten-Turner Fisher Peak	65	ttiita	.00	
Keystone	55			
Baldy Mountain Prospect	55			50
W. G. Hines	. 3.00	day		.50
Kenneth	58			.38
Brodhead	58			.38
LA PLATA COUNTY—				
Perrins Peak	60	657	075	.40421/245
Sunshine	65			110 .12 /2 .10
San Juan O. K	65	to	.70	
Hesperus	65	to	$.70 \\ .70$	
Morning Star	70			
MESA COUNTY—	1 05			
Lynch Grandview	80			
Farmers	1.00			
Riverside	1.15			
P. V Cameo	55	70		25 I d., 00 D
Book Cliff	.55			.35 Ldr08 R.
Winger Thomas	.85			
Thomas Fidel	.75			
Stokes				
Anchor No. 2	1.00			
Palisade	.80			
MONTROSE COUNTY—				
Knauss Missouri Cloverdale	2.50	and bo	ard	
Missouri	1.25			
Cloverdale	1.25			
MONTEZUMA COUNTY—				
Beal	1 75			
Todd	2.00			
Mitchell Springs	2.00	35 1	04.05.1	
Mancos Spencer	1.00	M. R.	\$1.25]	Lump.
DPC11001	1.00			
PITKIN COUNTY—				
Gulch				
Placita	.63			
RIO BLANCO COUNTY—				
Lion Canon	3.00	day		
Fairfield Sulphur	1.00	ton		
sarpitut	1.00			
ROUTT COUNTY-				
Diamond	.70	1.		
Allen	5.20	ton		
Diamond	.55			.40
Curtiss Routt	.55	and	.60	
Havden	G G .			.40
McGregor Bear River Moffat No. 2 Moffat No. 1	.55			.40
Moffat No. 2	.55			.40
Moffat No. 1	.55			.40
Pinnacle Yampa Valley 1-2-3	.55			.40
_ 3111/0				

MINING PRICES—Continued

WELD COUNTY—	Hand Mining	Loading After Machines
Ideal Eureka Coal Eureka Grant Frederick	.65 .65	.41 .43 .41 Mach. work by shift .52 to .66%
Russell Shamrock Evans Puritan	.65 .65 .65 .63 to .65	.41 to .55 2 .41 .41 .41 .41
Baum State	.63 .65 Machine Runne other insid	er, \$3.80 eight hr. All

TABLE No. 1

SHOWING BY COMPANIES: TOTAL NUMBER OF TONS PRODUCED AND NUMBER OF MEN EMPLOYED; NUMBER OF FATAL ACCIDENTS; NUMBER OF MEN EMPLOYED PER FATAL ACCIDENT AND NUMBER OF TONS PRODUCED PER FATAL ACCIDENT; NUMBER OF NON-FATAL ACCIDENT AND NUMBER OF TONS PRODUCED PER NON-FATAL ACCIDENT, NUMBER OF TONS PRODUCED PER NON-FATAL ACCIDENT; NUMBER KILLED PER 1,000 EMPLOYED.

AND NUMBER OF MEN INJURED PER 1,000 EMPLOYED.

Ī	Injured per	68.18 50.55 40.00 72.00	22.22 22.22 22.22 22.22 19.62 194.62
I	Killed per 1,000 Employed	100.000	
	Xo. of Tons Produced Per Kon-Fatal Accident	3,612	22,255
	No. of Men Employed per Non-Fatal Accident	2.2 20 25 14	45 45 11 11 68
	No. of Non-Fatal Accidents	112 2 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	No. of Tons Produced per Fatal Accident	3,449	244,718
	No. of Men Employed per Fatal Accident	10	221
1916.	No. of Fatal Accidents		
Ä	No. of Men Employed	888 999 33 35 165 165 105 105 105 105 105 105 105 105 105 10	2 4 4 5 7 4 4 5 7 1 1 8 8 1 1 1 8 1 1 8 1 1 1 8 1 1 1 8 1 1 1 1 8 1
	Total Production	50,1186 50,1199 50,1199 50,044 50,941 50,090 50,000	1,271,271,272,272,273,273,273,273,273,273,273,273
	Companies.	Alliance Coal Co. Archor Coal Co. Aztec Coal Mining Co. Baldy Coal Co. Bandiwin Fuel Co. Bandino Bros. Bear River Coal Co. Big Four Coal Co. Big Four Coal Co. Big Four Coal Co. C. W.	Billstrom, C. O. Billstrom, C. O. Billstrom, Gus Black Chanon Fuel Co. Black Diamond Coal Co. Black Diamond H. N. C. M. Co. Brock-Cliff R. R. Co. Brimble, David Brooks Fuel Co. Brooks fuel Co. Calbon Coal Co. Carbon Coal & Coke Co. Carbon Coal & Coke Co. Carbon Coal & Coke Co.

65.65.65 65.65.65 29.90 70.00 70.00 65.63 65.63 131.60 19.60 19.60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
15.171 9.631 47.028 16,430 9,496 9,589 49,020 1,1104	17412 45,457 11,547 11,547 12,9,973 16,026 16,026 16,026 16,026 16,026 16,026 16,026 16,026 16,026 16,027 1
16 1533 33 33 119 119 119 119 119 119 119 119	20 20 20 20 10 11 11 11 11 11 11 11 11 11 11 11 11
869 619 10 10 10 10 10 10 10 10 10 10 10 10 10	
232,427	
367.6	
<u></u>	
04100 10410	22.000 11.45 2.000 11.
136,500 136,541 235,1402 235,1402 200 65,111 65,711 1,731 1,533	45.25.35.35.35.35.35.35.35.35.35.35.35.35.35

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Injured per 1,000 Employed	16.66 104.23 52.63 48.80 	
Killed per 1,000 Employed	771.43 24.40 100.00 14.92 33.33 14.92 14.02	
No. of Tons Produced per Non-Fatal Accident	8,747 10,478 17,801 17,945 3,982 71,051 8,696 5,458	
No. of Men Employed per Non-Fatal Accident	60 10 10 19 19 19 17 17 17 86 6 6 6 6 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	
No. of Non-Fatal Accidents		
No. of Tons Produced per Fatal Accident	18,427 35,602 21,959 95 71,051 65,497	
No. of Men Famployed Fatal Accident		
No. of Fatal Accidents		
No. of Men Employed		
TetoT Production	1	
Companies.	Jones, D. W. Juanita Coal & Coke Co. Levis, J. T. Levis, J. T. Littell Coal Co. Lindermann, T. E. Louisville Coal & Land Co. Marcos Fuel Co. MacLean & Gilbert McLaughlin, James McNally & Co. Moffat Coal Co. Moffat Coal Co. Moffat Coal Co. Morgan & Williams Mowry, J. F. Mournent Valley Coal Co. Motton Coal Co. Morgan & Williams Mowry, J. F. Mowry, J. F. Movitoral Coal Co. Northern Colorado Coal Co. Northern Colorado Coal Co. North Park Coal Co. Oberding, W. J. Oberding, W. J. Oberding Coal Co. Ore Coal Co. Parisade Coal & Supply Co. Parisade Coal & Rocchio. Parisade Coal & Supply Co. Parisade Coal & Supply Co.	railvectile, Darcola

10.53 3.32 3.32 3.32 0.00 6.76 6.76 6.76 4.97
29,592 29,592 29,592 2,121 4,648 11,548 11,648 11,648 11,634 4,662 21,615 83,100 21,615 83,100 13,291 13,201 12,845
118 118 118 118 118 118 118 118 118 118
1
46,193 46,193 128,266 1,640 1,640 1,640 21,615
301 4 4 8
211244602148084888123084888411111111111111111111111111111111
$\begin{array}{c} 4 + 1 + 4 + 6 + 4 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8$
4 61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Injured per 1,000 Employed	47.62 46.30 34.48 39.21 77.00 29.85
Killed per	29.85
No. of Tons Produced per Non-Fatal Accident	22,223 22,846 4,084 8,600 7,865 32,835 11,836
No. of Men Employed per Non-Fatal Accident	21 21.4 29 26 26 13 34 15.00
No. of Non-Fatal Accidents	611 611 2 2 2 8889
No. of Tons Produced per Fatal Accident	464,460 100 100 100 100 100 100 100 100 100 1
No. of Men Employed per Fatal Accident	439.3
No. of Fatal Accidents	m m d 4
No. of Men Employed	1,317 1,317 116 116 116 117 1,317 1,315 1,315 1,315 1,315 1,315
Total noisoubord	22,22 22,223 1,393,380 16,337 17,199 1,512 1,512 1,522,185
Companies.	Valley Commercial Coal Co. vesta Coal Mining Co. Wagner & Austin Walsenburg Coal Mining Co. Williamsburg Slope Coal Co. Williamsburg Slope Coal Co. Worlf Park Leasing Co. Wooff Park Leasing Co. Wooff Park Leasing Co. Total of state

NOTE: All fatal accidents in and around the coal mines are charged to the coal industry. In the above table a fatal accident at a coking plant is listed, consequently, the employees at the coke ovens are included in the above number of men employed. There are three companies operating coke ovens, viz.: The Colorado Fuel & Iron Co., employed in 1916, 628 men at the coke ovens; The Victor-American Fuel Co., 50 men, and The Carbon Coal & Coke Co., 39 men, making a total of 717 men.

TABLE No. 2

NUMBER OF FATAL ACCIDENTS IN 1916.

Underground Surface	39 5
Total	44

TABLE No. 3

NUMBER OF FATAL ACCIDENTS—CAUSES AND PERCENTAGES.

Causes	Number of Accidents	Per Cent
Falls of rock and coal	8	$51.00 \\ 18.20 \\ 11.30$
Miscellaneous		13.50
Total	44	100.00

RESPONSIBILITY PLACED BY INSPECTORS.

N	umber
Owner	
Deceased	
Owner and deceased	4
Unavoidable	
Co-worker Unable to place.	
onable to place	
Total	44
Number of widows	28
Children	56
Single men	16

TABLE No. 4

NUMBER KILLED PER 1,000 EMPLOYED IN 1913, 1914, 1915, 1916.

1913	9 60
	0.00
1914 •	7.00
1915	5.10
1916	2 25

TABLE No. 5

NUMBER OF NON-FATAL ACCIDENTS.*

Causes	Number of Accidents	Per Cent
Falls of rock and coal		40.40
Mine cars and motors	238	26.80
Electricity	5	.50
Mine gases		1.30
Miscellaneous	276	31.00
Total		100.00
Classified:		

Serious Minor Trivial	202
Total	889

^{*}NOTE—All accidents classed as "Trivial," include from five days to three weeks' disability; "Minor," from three to five weeks; "Serious," five weeks or more, and are classified in Table 5.

BOULDER COUNTY, 1916

SHOWING BY COUNTIES MINES OPERATED, NAME OF OPERATOR AND ADDRESS OF MINE, THICKNESS OF COAL BED UNDER OPERATION, KIND OF OPENING, CHARACTER OF COAL, NUMBER OF DAYS WORKED, AVERAGE NUMBER OF MEN EMPLOYED, TOTAL NUMBER OF TONS OF COAL PRODUCED IN 1916, AND CAPACITY OF MINE PER DAY IN TONS.

TABLE NO. 6.

Name of Mine	Name of Company	Mine Postoffice
Standard Rocky Vulcan Rocky Mitchell Rocky Mitchell Rocky Rex No. 1 Rocky Hecla Rocky Hecla Rocky Gorham Rocky Industrial Rocky Industrial Rocky Monarch No. 1 Natio Monarch No. 2 Natio Fox Fox C Matchless Great Centennial Big F Sunnyside Big S Nonpareil Brook Black Diamond Mitch Gorham No. 2 Morge Big Lake Big I Mile High New I Lewis J. T. Electric Crown Strathmore Strath	y Mountain Fuel Co. nal Fuel Co. nal Fuel Co. coal Mining Co. Matchless Fuel Co. Cour Coal & Coke Co. ix Coal Co. es Fuel Co. ell & Graham an & Williams ake Coal Co. Mile High Coal Co. Lewis. n Coal Co. more Mine Co.	Lafayette Lafayette Lafayette Lafayette Louisville Gorham Superior Downer Broomfield Gorham Louisville Louisville Louisville Louisville Louisville Lafayette Lafayette Lafayette Lafayette Lafayette Lafayette Lafayette
Totals-Number of mir	nes operated	23

DELTA COUNTY, 1916

TABLE NO. 7.

King	Juanita Coal & Coke Co	Bowie
Farmers	Paonia Coal Co	Paonia
Red Mountain	Hall & Motto	Cedaredge
Green Valley	Rinehart & Patton	Cedaredge
Winton		Austin
States	States Coal Co	Cedaredge
Black Diamond	Farmers Progressive Coal Co.	Paonia
Bennett	Hotchkiss Fuel & Supply Co	Hotchkiss
Converse	Frank Converse	Paonia
Coalby	Gus Billstrom	Cedaredge
Rollins	Dugger Coal Co	Delta
Leroux Creek	J. R. Degraffenried	Hotchkiss
Independent	E. J. Weld	Cedaredge
	Wm. Proutt	

Totals-Number of mines operated.....

EL PASO COUNTY, 1916

TABLE NO. 8.

Pike's PeakPik	e's Peak Fuel Co	Springs
PattersonPik	es Peak Fuel CoColorado	Springs
El PasoEl	Paso County Land & Fuel Co Colorado	Springs
Rapson No. 2Raj	pson Coal Mining CoColorado	Springs
DanvilleTuc	dor Coal CoColorado	Springs
WilliamsvilleThe	omas Coal CoColorado	Springs
FrancevilleDar	n E. DavisColorado	Springs

BOULDER COUNTY, 1916

SHOWING BY COUNTIES MINES OPERATED, NAME OF OPERATOR AND ADDRESS OF MINE, THICKNESS OF COAL BED UNDER OPERATION, KIND OF OPENING, CHARACTER OF COAL, NUMBER OF DAYS WORKED, AVERAGE NUMBER OF MEN EMPLOYED, TOTAL NUMBER OF TONS OF COAL PRODUCED IN 1916, AND CAPACITY OF MINE PER DAY IN TONS.

TABLE NO. 6.

Thickness of Coal Bed	Character of Coal	Kind of Opening	Number of Days Worked	Average No. of Men Employed	Total No. of Tons Produced	Capacity of Mine Per Day, Tons
6 to 12 ft. 4 to 8 ft. 6 in 7 ft. 6 in. 6 to 10 ft. 8 to 4 ft. 5 to 8 ft. 6 in. 6 ft. 5 to 8 ft. 6 in. 6 ft. 4 to 9 ft. 5 to 8 ft. 7 to 5 ft. 6 in. 4 to 4 ft. 11 in. 9 ft. average 7 ft. 8 ft. 5 ft. 6 ft. 7 ft. 7 ft. 8 ft. 7 ft. 7 ft. 7 ft. 8 ft. 7 ft. 7 ft. 7 ft. 8 ft. 7 ft. 7 ft.	Lignite	Shaft Shaft	217.1 174.5 135 263.7 243.7 204.4 249.4 193 303 210 240 200.5 270.5 103 150 297 263 297 263 270 297	126 717 711 419 1521 255 1206 798 6311 1188 60 63 144 64	187,913 73,059 53,422 88,068 62,700 22,546 162,841 23,674 106,749 52,235 48,768 48,013 23,123 12,697 2,658 2,583 2,370 419	1,000 700 350 450 350 300 800 750 500 500 400 250 150 35
			206.6	1,069	1,061,250	

DELTA COUNTY, 1916

TABLE NO. 7.

9 ft.	Bituminous	Slope	157	60	60,668	600
8 ft. 5 in.	Bituminous	Drift	162	5	5.567	40
7 ft. 8 in.	Bituminous	Slope	230	3	2,472	30
5 ft. 5 in.	Bituminous	Drift	200	2	1,639	14
11 ft.	Bituminous	Drift	196	2	1,271	10
12 to 13 ft.	Semi-bituminous	Slope .	326	1	1.154	40
7 ft. 6 in.	Bituminous	Drift	114	3	1,104	
6 ft.	Semi-bituminous	Drift	196	1	1,037	30
7 ft.	Bituminous	Drift	196	2	970	15
4 ft.	Bituminous	Tunnel	119	2	435	
11 ft.	Semi-bituminous	Shaft	60	2	392	5.0
6 ft.	Bituminous	Drift	25	ī	129	
4 ft.	Semi-bituminous		60	1	112	
7 ft.	Semi-bituminous	Drift	6	1	36	
				_		
			146.2	86	76.986	

EL PASO COUNTY, 1916

TABLE NO. 8.

THE DEE MOI OF						
12 ft. 12 ft. 10 to 6 ft. 6 in. 5 to 8 ft. 8 ft. 6 ft.	Lignite Lignite Lignite Lignite Lignite Lignite Lignite	Shaft Slope Slope Shaft Slope Slope	254 29 300 115 292 207	160 34 76 40 13	197,182 2,161 85,011 12,152 9,992 5,373	1,000 600 300 100 50
5 ft.	Lignite	Slope	108.5	2 226	1,313	10
			186.5	336	313,184	

FREMONT COUNTY, 1916

TABLE NO. 9.

Name of Mine	Name of Company	Mine Postoffice
Rockvale Coal Creek Fremont Nonac Chandler Radiant	Colorado Fuel & Iron Co. Victor-American Fuel Co. Victor-American Fuel Co.	Rockvale Coal Creek Florence Canon City Chandler Pyrolite
Royal Gorge Emerald	Gibson Lumber & Fuel Co	Canon City Williamsburg
Brookside Willie Double Dick Orecchio No. 1 Wolf Park Williamsburg Slope Smith Tanner	Brookside Coal Mining Co. Petry Coal Co. McLean & Gilbert Orecchio & Rocchio Wolf Park Leasing Co. Donnelly Coal Co. E. R. Harris	Canon City Florence Florence Canon City Florence Canon City Coal Creek
	mber of mines operated	
TABLE NO. 10.	GARFIELD COUNTY, 1916	3
Midland	Rocky Mountain Fuel Co	Sunlight
Vulcan Carbonera South Canon Harvey Gap	Garfield Mine Leasing Co. Gilson Asphaltum Co. South Canon Coal Co. Harvey Gap Coal Co.	NewcastleMackSouth CanonNewcastle
	mber of mines operated	
	mber of mines operated	5
Totals—Nui	GUNNISON COUNTY, 1916	5
Totals—Nui TABLE NO. 11. Somerset Crested Butte Floresta Alpine Porter Horace Bulkley Smith Baldwin-Star Great Western	mber of mines operated	Somerset Crested Butte Floresta Baldwin Crested Butte Crested Butte Crested Butte Co.Crested Butte Baldwin Gunnison
Totals—Nui TABLE NO. 11. Somerset Crested Butte Floresta Alpine Porter Horace Bulkley Smith Baldwin-Star Great Western	GUNNISON COUNTY, 1916	Somerset Crested Butte Floresta Baldwin Crested Butte Crested Butte Co.Crested Butte Baldwin Gunnison
Totals—Nui TABLE NO. 11. Somerset Crested Butte Floresta Alpine Porter Horace Bulkley Smith Baldwin-Star Great Western Totals—Nui TABLE NO. 12.	GUNNISON COUNTY, 1916	Somerset Crested Butte Floresta Baldwin Crested Butte Crested Butte Crested Butte Co.Crested Butte Baldwin Gunnison

FREMONT COUNTY, 1916

TABLE NO. 9.

Thickness of Coal Bed	Character of Coal	Kind of Opening	Number of Days Worked	Average No. of Men Employed	Total No. of Tons Produced	Capacity of Mine Per Day, Tons
4 ft.	Semi-bituminous	Shaft	208.5	367	193,323	1,000
3 ft. 10 in. 4 ft.	Semi-bituminous Semi-bituminous	Shaft Shaft	$\begin{array}{c} 120 \\ 112 \end{array}$	$\begin{array}{c} 217 \\ 129 \end{array}$	77,310	800
4 ft. 6 ft.	Semi-bituminous	Slope	210	18	$58,001 \\ 8,519$	$\frac{800}{200}$
4 to 4 ft. 10 in.	Semi-bituminous	Shaft	215	156	142,986	1,000
3 ft. 7 in. to 3 ft.	Sciiii Sicaiiiiioas	SHULL	210	100	112,000	1,000
10 in.	Semi-bituminous	Slope	179	68	41,591	500
3, 4 and 6 ft.	Semi-bituminous	Slope	288	50	33,825	150
3 ft. 2 in. to 3 ft.						
6 in.	Semi-bituminous	Slope	211	51	17,199	75
6 ft.	Semi-bituminous	Slope	230.5	10	8,455	100
3 ft.	Semi-bituminous	Slope	198	7	4,318	40
1½ ft. to 2 ft. 6 in.	Semi-bituminous	Slope	195	7	2,564	15
4 ft.	Semi-bituminous	Slope	138	3	1,800	20
5 ft.	Semi-bituminous	Shaft	90	41	1,511	30
3 f t.	Semi-bituminous	Slope	43	7	564	25
3 ft. 6 in.	Semi-bituminous	Slope	20	3	125	5
			163.8	1,134	592,091	

GARFIELD COUNTY, 1916

TABLE NO. 10.

8 ft. 7 in. to 9 ft. 6 in. 7 to 14 ft. 7 ft. 11 in.	Bituminous Bituminous Bituminous	Slope Drift Drift	227.5 242 298	56 48	74,664 40,973	350 350
20 ft.	Bituminous	Drift	49	61	$11,547 \\ 4,036$	$\begin{smallmatrix} 60\\400\end{smallmatrix}$
7 f t.	Bituminous	Drift	232	176	1,320	15

GUNNISON COUNTY, 1916

TABLE NO. 11.

24 ft.	Bituminous	Slope	222.7	203	282,599	1,800
6 ft. 8 in.	Bituminous	Drift	258	141	102,960	600
3 ft. 6 in.	Anthracite	Slope	172	87	28.291	600
7 ft.	Semi-bituminous	Shaft	159.1	46	36,334	500
6 ft.	Bituminous	Drift	203	38	20,956	150
3 ft.	Anthracite	Shaft	193	34	9,296	200
6 ft.	Bituminous	Drift	233	21	17,111	200
4 ft.	Anthracite	Drift	249	25	9,496	300
7 ft.	Bituminous	Drift	168	5	4,043	250
5 ft.	Semi-bituminous	Drift	20	2	669	10
			1877	602	511 755	

HUERFANO COUNTY, 1916

TABLE NO. 12.

6 ft.	Bituminous	Slope	304	298	254,981	1,200
5 ft. 8 in.	Bituminous	Slope	297.5	271	161,211	800
6 ft. 6 in.	Bituminous	Slope	276.3	269	231,608	1,200
4 ft. 9 in.	Bituminous	Slope	244	169	137,193	800
3 ft. 10 in.	Bituminous	Slope	263.5	171	125,525	600
5 ft. 2 in.	Bituminous	Slope	101.5	179	40,294	500
9 ft.	Bituminous	Slope	24	107	1,879	600
5 to 12 ft.	Bituminous	Slope	263.5	214	196,491	1,000
7 ft.	Bituminous	Shaft	245.5	67	71,051	600
2 ft. 4 ln. to					Ť	
· 2 ft. 8 in.	Bituminous	Slope	251	117	70,428	600
4 1/2 & 6 ft.	Bituminous	Slope	213	58	59,455	500
4 to 6 ft.	Bituminous	Slope	192.5	88	54,186	500
3 to 4 ft.	Bituminous	Slope	269	99	50,719	400
		_				

HUERFANO COUNTY, 1916

TABLE NO. 12-(Continued)

Name of Mine	Name of Company	Mine Postoffice
Sunnyside Rugby Turner Caddell Vesta Tioga Maitland Breen Loma Larimore Solar Gordon Pinon Black Canon Ojo	Big Four Coal & Coke Co Sunnyside Coal Mining Co Rugby Fuel Co Turner Coal Co Black Canon Fuel Co Vesta Coal Mining Co Tioga Coal Co McNally & Co Breen Coal Mining Co Loma Fuel Co Monument Valley Coal Co Walsenburg Coal Mining Co Gordon Coal Co Rocky Mountain Fuel Co New Maitland Coal Co Ojo Canon Coal Co her of mines operated.	Strong Rugby Walsenburg Walsenburg Walsenburg Tioga Maitland Walsenburg Strong Walsenburg
TABLE NO. 13.	•	
	Northern Colorado Coal Co North Park Coal Co	
Totals—Number o	f mines operated	2
TABLE NO. 14.	JEFFERSON COUNTY, 19	16
Leyden No. 2 Justrite	Leyden Coal CoThos. Shepherd	Golden
Totals—Number o	f mines operated	2
TABLE NO. 15.	LA PLATA COUNTY, 191	
Perin's Peak Hesperus San Juan O. K. Sunshine Morning Star	Calumet Fuel Co	Perins Durango Durango Durango Durango Durango Durango
Totals—Number of	f mines operated	6
TABLE NO. 16.	LAS ANIMAS COUNTY, 19	
Hastings	Colorado Fuel & Iron Co. Victor-American Fuel Co. Victor-American Fuel Co. Victor-American Fuel Co. Victor-American Fuel Co. Colorado Fuel & Iron Co. Colorado Fuel Co. Colorado Fuel Co. Carbon Coal & Coke Co.	Hastings
Cokedale	Carbon Coal & Coke Co	Cokedale

HUERFANO COUNTY, 1916

TABLE NO. 12-(Continued)

i.				No.	· =	of
Characte of Coal	7	Kind of Opening	Number of Days Worked	Average of Men Employe	Total No of Tons Produced	Capacity of Mine Per Day, Tons
Bituminous	ON 6	Slope Slope Slope Slope Slope Slope Slope Slope Slope Slope Slope Slope Slope Slope Slope	197.2 155 58 207.7	97 53 54 45 21 48 30 25 14 40 116 	47,786 42,102 39,732 39,603 22,255 22,223 21,615 21,595 19,759 18,427 17,945 16,337 12,362 7,507 7,177 139	600 500 2500 500 200 200 300 70 150 200 600 500 150
JACKS	ON C	OUNI	1, 191	···		
Lignite Lignite		Slope Slope	98 239	29 13	26,265 17,391	$\begin{smallmatrix}500\\200\end{smallmatrix}$
			168.5	42	43,656	
JEFFER	SON	COUN	TY, 19	16		
Lignite Lignite		Shaft Slope	235 274	163	148,699 823	2,000
			254.5	164	149,522	
LA PLA	TA (COUNT	Y, 191	16		
Bituminous Bituminous Bituminous	Drift	Drift Drift & Slope Drift Drift	199.9 136.6 311 204 199 150	63 43 33 6 5 2	47,697 29,592 24,233 5,136 4,398 350	350 300 450 60 10
			200	152	111,406	
T A CL A NITT	MAG	COUN	TY 19	916		
LAS ANI	MAIS					
	Bituminous	Bituminous Diff Bituminous Diff Bituminous	Bituminous Slope JACKSON COUNT Lignite Slope Lignite Slope Lignite Slope Lignite Slope Lignite Slope Bituminous Drift	Bituminous Slope 126.5	Signatur Signatur	Signatur Signatur

LAS ANIMAS COUNTY, 1916 TABLE NO. 16.—Continued.

Piedmont	Name of Company	Postoffice
Torbos No 9	Rocky Mountain Fuel Co	Soprie
01 bes 10. J	Rocky Mountain Fuel Co	Forbes
	Chicosa Fuel Co	
Coller	Cedar Hill Coal & Coke Co	Tollerburg
reenville	Cedar Hill Coal & Coke Co	Ludlow
Stack Diamond	Tomple Fuel Co	
Zannath	Temple Fuel Co	Trinidad
Royal	Royal Fuel Co	Aguilar
udlow	Huerfano Coal Co.	Ludlow
Primrose	Primrose Coal Co.	Rugby
Jeffryes	Jeffryes Fuel Co	Trinidad
Rapson No. 1	Rapson Coal Mining Co	Rapson
fewel	Ideal Fuel Co	Aguilar
Nootton-Turner	Wootton Land & Fuel Co	Wootton
Prospect	Prospect Coal Co	Trinidad
Baldy	Baldy Coal CoBartolo Parivecchio	Trinidad
Keystone No. 2	Bartolo Parivecchio	Trinidad
AcLaughlin	Jas. E. McLaughlin	Trinidad
Hines	Hines Coal Co	Trinidad
risner's Peak	Fisher's Peak Fuel Co	Trinidad
Neystone No. 1	Trinidad Coal Co	Trinidad
Three Pines	Black Diamond Niggerhand C M	Co Trinidad
linerior	Brown & Bartolomeo	Trinidad
	MESA COUNTY, 1916	
TABLE NO. 17.	, and the second	
Cameo	, and the second	CoCameo
Cameo	, and the second	CoCameo Grand Junction
Cameo	, and the second	CoCameo Grand Junction Palisade Palisade
Cameo	, and the second	CoCameo Grand Junction Palisade Palisade Palisade
CABLE NO. 17. Cameo Book Cliff Barfield Palisade Frandview	, and the second	CoCameo Grand Junction Palisade Palisade Palisade Cameo
TABLE NO. 17. Dameo Book Cliff Barfield Palisade Grandview V. Fidel	, and the second	CoCameo Grand Junctior Palisade Palisade Palisade Cameo Fruita
Cameo	, and the second	CoCameo Grand Junction Palisade Palisade Palisade Cameo Fruita Palisade
Cameo Book Cliff Barfield Palisade Frandview V Fidel Stokes Anchor No. 2	, and the second	Co Cameo
Cameo Sook Cliff Carfield Carlield Carlade Crandview C. V. Cidel Stokes Anchor No. 2	, and the second	CoCameoGrand Junction Palisade Palisade Palisade Cameo Fruita Palisade Fruita Fruita
TABLE NO. 17. Dameo Book Cliff Barfield Palisade Grandview V V Fidel Stokes Anchor No. 2 Anchor No. 1 Thomas	, and the second	CoCameo Grand Junction Palisade Palisade Palisade Cameo Fruita Palisade Fruita Fruita Grand Junction
Cameo Book Cliff Farfield Palisade Frandview V Fidel Stokes Anchor No. 2 Anchor No. 1 Fhomas Farmers	Grand Junction Mining & Fuel Book Cliff R. R. Co. Garfield Coal Mining Co. Palisade Coal & Supply Co. Grandview Coal Co. M. Sixbey Anthony Fidel W. D. Stokes Anchor Coal Co. Anchor Coal Co. C. F. Thomas Farmers' Mutual Coal Co.	Co Cameo Grand Junction Palisade Palisade Palisade Cameo Fruita Palisade Fruita Fruita Fruita Grand Junction Grand Junction
Cameo Book Cliff Garfield Palisade Grandview P. V. P. V. Stokes Anchor No. 2 Anchor No. 1 Thomas Farmers	Grand Junction Mining & Fuel Book Cliff R. R. Co. Garfield Coal Mining Co. Palisade Coal & Supply Co. Grandview Coal Co. M. Sixbey Anthony Fidel W. D. Stokes Anchor Coal Co. Anchor Coal Co. C. F. Thomas Farmers' Mutual Coal Co.	CoCameo
Cameo Book Cliff Farfield Palisade Frandview V Fidel Stokes Anchor No. 2 Anchor No. 1 Fhomas Farmers	Grand Junction Mining & Fuel Book Cliff R. R. Co. Garfield Coal Mining Co. Palisade Coal & Supply Co. Grandview Coal Co. M. Sixbey Anthony Fidel W. D. Stokes Anchor Coal Co. Anchor Coal Co. C. F. Thomas Farmers' Mutual Coal Co.	CoCameo Grand Junctior Palisade Palisade Palisade Cameo Fruita Palisade Fruita Grand Junctior Grand Junctior Palisade Fruita
Cameo Book Cliff Garfield Palisade Grandview P. V. P. V. Stokes Anchor No. 2 Anchor No. 1 Thomas Farmers	, and the second	CoCameo Grand Junctior Palisade Palisade Palisade Cameo Fruita Palisade Fruita Grand Junction Grand Junction Palisade Fruita Grand Junction Palisade Fruita
Cameo Book Cliff Garfield Palisade Grandview V V Fidel Stokes Anchor No. 2 Anchor No. 1 Fromas Farmers Riverside Lynch Black Diamond Winger	Grand Junction Mining & Fuel Book Cliff R. R. Co. Garfield Coal Mining Co. Palisade Coal & Supply Co. Grandview Coal Co. M. Sixbey Anthony Fidel W. D. Stokes Anchor Coal Co. Anchor Coal Co. C. F. Thomas Farmers' Mutual Coal Co.	Palisade
Cameo Book Cliff Garfield Palisade Grandview V V Stokes Anchor No. 2 Anchor No. 1 Fhomas Farmers Riverside Lynch Black Diamond Winger	Grand Junction Mining & Fuel Book Cliff R. R. Co. Garfield Coal Mining Co. Palisade Coal & Supply Co. Grandview Coal Co. M. Sixbey Anthony Fidel W. D. Stokes Anchor Coal Co. Anchor Coal Co. C. F. Thomas Farmers' Mutual Coal Co. Riverside Coal Co. Valley Commercial Co. Black Diamond Coal Co. A. C. Richmond	Grand Junction Pallsade 16
Black Diamond Winger	Grand Junction Mining & Fuel Book Cliff R. R. Co. Garfield Coal Mining Co. Palisade Coal & Supply Co. Grandview Coal Co. M. Sixbey Anthony Fidel W. D. Stokes Anchor Coal Co. Anchor Coal Co. C. F. Thomas Farmers' Mutual Coal Co. Riverside Coal Co. Valley Commercial Co. Black Diamond Coal Co. A. C. Richmond	Grand Junction Pallsade 16

LAS ANIMAS COUNTY, 1916

						-
Thickness of Coal Bed	Character of Coal	Kind of Opening	Number of Days Worked	Average No. of Men Employed	Total No. of Tons Produced	Capacity of Mine Per Day, Tons
	G G	20	Jo M	A S	Pr	Cal
4 to 6 ft. 3 ft. 6 in. to	Bituminous	Slope	195.9	173	144,872	800
7 ft. 6 in. to 3 ft. 6 in. to	Bituminous	Drift	271	123	110,031	800
7 ft. 6 in. 6 ft.	Bituminous Bituminous	Drift Shaft	$\begin{array}{c} 271 \\ 239 \end{array}$	$\begin{array}{c} 17 \\ 134 \end{array}$	$ \begin{array}{r} 26,510 \\ 120,374 \end{array} $	800 800
6 ft. 3 ft. 6 in.	Bituminous Bituminous	Slope Slope	$\begin{array}{c} 194 \\ 44 \end{array}$	46 25	$\frac{41,166}{3,808}$	300 150
4 ft. 5 ft.	Bituminous Bituminous	Slope Drift	297 299	118 30	124,200 42,000	450 150
6 ft. 2 in. 4 to 6 ft. 4 to 6 ft.	Bituminous Bituminous Bituminous	Shaft Drift Slope	$230 \\ 224.5 \\ 279$	98 90 50	95,083 80,131 44,542	$ \begin{array}{r} 500 \\ 600 \\ 250 \end{array} $
4 to 6 ft. 6 to 4 ft. 6 in. 3 to 4 ft.	Bituminous Bituminous	Drift Slope	302 173	46 55	38,730 34,041	200 400
3 ft. 6 in. 4 ft. 6 in.	Bituminous Bituminous	Drift Drift	$\frac{172.8}{258}$	30 13	12,321 7,865	150 150
2 ft. 2 in. to 2 ft. 8 in.	Bituminous	Slope	283	7	4,142	25
5 to 6 ft. 2 ft. 6 in.	Bituminous Bituminous	Slope	211 150	3 2 3 2 3 8 2	3,441 1,878	6
9 ft. 6 ft. 8 in. 3 ft. 10 in.	Bituminous Bituminous Bituminous	Slope	$150 \\ 200 \\ 182$	3 9	1,374 1,300 833	12 8 20
4 ft. 8 in. 7 ft.	Bituminous Bituminous	Slope	240	3 3	558 54	15 25
4 ft. 3 ft. 8 in.	Bituminous Bituminous	•••••	90 90	8 2	200 150	35
			233.3	4,411	4,154,334	

MESA COUNTY, 1916

TABLE NO. 17.

7 ft.	Semi-bituminous	Drift	238	71	89,811	800
7 ft.	Semi-bituminous	Drift	137.9	14	13,787	100
8 ft.	Semi-bituminous	Drift	181	15	8,045	150
3 ft. 10 in.	Semi-bituminous	Drift	105	15	7,252	100
4 and 5 ft.	Semi-bituminous	Drift	143.5	10	3,063	30
6 ft.	Semi-bituminous	Drift	171	3	2,280	
5 ft.	Semi-bituminous	Drift	184	2	1,849	50
4 ft.	Semi-bituminous	Drift	102	4	1,640	50
7 ft.	Semi-bituminous	Drift	154	2	1,090	
6 ft.	Semi-bituminous		7.0	$\bar{2}$	502	
4 ft. 10 in.	Semi-bituminous	Drift	229	2	871	
3 ft.	Semi-bituminous	Slope	123	2	644	20
2 ft. 6 in.	Semi-bituminous	Drift	71	2	527	
5 ft.	Semi-bituminous	Drift	68	$\overline{2}$	430	7
5 ft.	Semi-bituminous		90	ī	329	
6 ft.	Semi-bituminous	Drift	63	1	322	10
			133.1	148	132.442	

MOFFAT COUNTY, 1916

TABLE NO. 18.

ft.	Bituminous	Drift	150	1	200	
			150	1	200	

MONTEZUMA COUNTY, 1916

TABLE NO. 19.

Name of Mine	Name of Company	Mine Postoffice
Titalic OI Inilic	Titume of Company	1 obtomee
SpencerW	V. H French	Mancos
MancosM Todd G	Iancos Fuel Co	Mancos
Mitchell SpringsJ.	S. Todd F. Mowry	Cortez
Totals—Number of r	mines operated	4
M	ONTROSE COUNTY, 19	16
TABLE NO. 20.		10
MissouriG	us Winkler	Nucla
Knauss W	Villiam J. Oberding	Nucla
SpechtG	us Winkler Villiam J. Oberdingarcus Peterson eorge T. Specht	Nucla
	ines operated	
	PITKIN COUNTY, 1916	
TABLE NO. 21.	,	
Spring GulchCo	olorado Fuel & Iron Co	Gulch
	apini Bros	
Totals-Number of m	nines operated	2
70.1	ro DI ANIGO GOUNDII 10	0.4.0
TABLE NO. 22.	IO BLANCO COUNTY, 19	916
	eynolds & Babcock	Moolron
Lion CanonT	. E. Linderman	Meeker
FairfieldF	. W. Fairfield	Meeker
SulphurR PollardJ.	. E. Linderman . W. Fairfield . H. Crawford D. Moog	Meeker Meeker
Totals—Numbers of I	mines operated	
	ROUTT COUNTY, 1916	
TABLE NO. 23.		
Moffat No. 1M	doffat Coal Co	Oak Creek
Harris	olorado & Utah Coal Co.	Mt. Harris
PinnacleV	ictor-American Fuel Co	Oak Creek
Yampa Valley No. 1Y	ampa Valley Coal Co	Pallas
Yampa Valley, Nos.	ampa Valley Coal Co	Pallas
Bear RiverB	ear River Coal Co	Bear River
McGregorM	IcNeil Coal Co	McGregor
laydenH	ayden Bros.' Coal Corporation	Oak Creek
Wolf Creek	ederal Coal Mining Co.	Oak Crook
Purtis Routt	urtis Coal Co.	Pool
FraylandII	ndian Creek Coal Co	Junction City
Jones D	. W. Jones	Oak Creek
Routt PinnacleR	outt Pinnacle Coal Co	Coalview
Electric R	outt Electric Coal Co	
Diamond T	ony Tordoroff	Pool Pool
Golden Oak	orthwestern Coal & Coke Co	Steamboat Spring
Allen A	llen Coal Co.	Coalview
HitchenC	omer & Riley	Pool
Totals-Number of m	ines operated	21

MONTEZUMA COUNTY, 1916

TABLE	NO	10
TUPLE	MU.	19.

TABLE NO. 19.	•		, ,			
Thickness of Coal Bed		Character of Coal	Number of Days Worked	Average No. of Men Employed	Total No. of Tons Produced	Capacity of Mine Per Day, Tons
3 ft. 2 ft. 10 in. 3 ft. 6 in. 2 ft. 10 in.	Bituminous Bituminous Lignite Lignite	Drift Drift Drift	$ \begin{array}{r} 200 \\ 150 \\ 150 \\ 150 \\ \hline 162.5 \end{array} $	3 2 2 1 — 8	$ \begin{array}{r} 1,600 \\ 536 \\ 515 \\ 204 \\ \hline 2,855 \end{array} $	12 40 8 1½
TABLE NO. 20.	MONTROS	E COUN'	ГҮ, 19:	16		
6 ft. 5 ft. 3 ft. 6 in. 5 ft. 6 in.	Lignite Lignite Lignite Lignite	Drift Drift Drift Tunnel	$ \begin{array}{c} 117 \\ 190 \\ 65 \\ 30 \\ \hline 100.5 \end{array} $	1 1 1 1 —————4	472 258 112 80 922	3 10
TABLE NO. 21.	PITKIN	COUNTY	7, 1916			
9 ft. 3 ft. 6 in.	Bituminous Bituminous	Slope Drift	$\frac{183.5}{233} = \frac{208}{208}$	$\frac{66}{9}$ $\frac{9}{75}$	33,983 7,530 41,513	50
TABLE NO. 22.	RIO BLAN	CO COUN	TY, 19	16		
14 ft. 7 ft. 12 ft. 6 ft. 5 ft.	Bituminous Bituminous Bituminous Bituminous Bituminous	Slope Slope Slope	132.7 200 133 45 25	3 2 2 2 2 1	2,646 1,147 737 150 95	30 4 6 3
TABLE NO. 23.	ROUTT	COUNTY	, 1916	10	4,775	
8 ft. 10 ft. 9 ft. 9 to 13 ft. 5 ft. 6 in.	Bituminous Bituminous Bituminous Bituminous Bituminous	Slope Drift Slope Drift Drift	283 261 213 231 184.2	42 195 167 145 40	56,993 227,710 235,141 175,454 40,264	2,000 2,000 1,500 1,000 500
5 ft. 6 in. 8 to 12 ft. 13 ft. 7 ft. 14 ft. 4 to 10 ft. 5 ft. 4 ft. 10 in. 7 ft. 9 ft. 8 ft. 1 ft. 9 ft. 7 ft.	Bituminous	Drift Slope Slope Drift Slope Slope Slope Drift Slope Drift Slope Drift Slope Drift Slope Drift	141.2 194 194.1 220 243 54 170 109 224 224 4.2 165 47 32 40 60	27 50 57 61 26 48 19 11 1 2 4 12 11 2	25,406 45,971 39,536 25,946 20,554 10,092 9,589 2,423 1,591 1,591 547 500 411 285 220 100	100 100 100 250 100 250 100 250

146.7

959

919,895

WELD COUNTY, 1916

TABLE NO. 24.

Name of Mine

Name of Company

Mine
Postoffice

Puritan
National Fuel Co. Erie
Parkdale
National Fuel Co. Lafayette
Baum
Consolidated Coal & Coke Co. Dacona
Russell
W. E. Russell Coal Co. Frestone
Evans
Evans Fuel Co. Frederick
Frederick
Frederick Fuel Co. Frederick
Frederick
Sierestone
Louisville Coal & Land Co. Firestone
Shamrock
Shamrock Coal Co. Erie
Grant
Carbon Fuel & Iron Co. Frederick
Ideal
United Collieries Co. Erie
Eureka
United Collieries Co. Erie
Eureka
United Collieries Co. Erie
Eureka
W. C. Bedlien
La Salle
Peerless
Peerless Coal Co. Frederick
State
State
State Coal Co. Erie
New Washington
David Brimble
St. Vrain
Farmers
Wagner & Austin
La Salle
Totals—Number of mines operated
Totals of State of Colorado.

WELD COUNTY, 1916

TABLE NO. 24.

Thickness of Coal Bed	Character of Coal	,	Kind of Opening	Number of Days Worked	Average No. of Men Employed	Total No. of Tons Produced	Capacity of Mine Per Day, Tons
9 ft. 10 ft. 7 to 7 ft. 6 in. 6 ft. 6 in. 8 to 7 ft. 6 in. 5 to 6 ft. 11 ft. 11 ft. 6 to 8 ft. 6 to 8 ft. 2 ft. 8 in. 4 ft. 7 ft. 6 in. 5 ft.	Lignite		haft lope haft haft lope chaft haft haft haft haft chaft chaft chaft chaft chaft chaft chaft chaft	140.1 65 259 225 187 131.3 159 196 292.1 118 154 160 21 174.1	98 16 57 51 51 58 41 21 20 13 9 3 2 5 1 4 4 7	$\begin{array}{c} 132,291 \\ 6,946 \\ 65,711 \\ 55,658 \\ 49,020 \\ 45,457 \\ 35,602 \\ 27,932 \\ 24,233 \\ 10,448 \\ 2,532 \\ 2,096 \\ 1,749 \\ 868 \\ 551 \\ 142 \\ \hline \\ 461,274 \\ \end{array}$	1,200 1,000 350 550 750 250 400 350 140 100 20

175.8 12,598 10,522,185

TABLE NO. 25

PRODUCTION OF COUNTIES BY MONTHS, 1916

Months	Boulder	Delta	El Paso	Fremont	Garfield
January	132,967	7,759	34,965	77,447	13,037
February	. 83,642 . 68,364	6,858 $5,734$	$28,241 \\ 26,071$	54,754	14,144 8,638
April		4,284	23,808	25,125	
May	57,143	4,293	22,650	20,333 $30,709$	8,526 8,921
June		3,172	17,049	33,780	7,683
July		3,201	16,692	34,502	7,104
August		5.055	21.228	48,740	10.812
September		6,275	22,318	56,341	10,789
October	123,963	6,851	29,247	59,589	12,665
November		10,137	33,018	72,227	15,884
December	. 140,455	13,367	37,897	78,544	14,337
Total	1.061.250	76,986	313,184	592,091	132,540
20001	,,	10,000	010,101	002,001	102,010
Months	Gunnison	Huèrfano	Jackson	Jefferson	La Plata
January	37,725	178,797	4,232	20,538	9,401
February		163,958	3,256	15,048	11,332
March		88,981	1,756	12,085	7,382
April	. 33,431	89,910	1,900	11,150	8,210
May		120,646	1,280	9,650	8,931
June	. 37,141	133,355	1,703	8,323	7,945
July		$126,932 \\ 155,124$	$1,280 \\ 1.695$	7,085 $9,668$	7,287 8,834
August September	50,623	164,607	3,229	12,924	9,261
October	53,102	192,639	7,513	14,721	10,130
November	58,327	192,773	10,182	13,691	10,452
December		203,863	5,630	14,639	12,241
Totals	. 511,755	1,811,585	43,656	149,522	111,406
Months	Las Animas	Mesa	Moffat	Montezuma	Montrose
		13.241		Montezuma	Montrose
January	320,828	13.241	Moffat		
	320,828 $312,961$ $316,490$	13,241 9,802 7,312			77 52 30
January February March April	320,828 312,961 316,490 313,930	13,241 9,802 7,312 6,966			77 52 30 34
January February March April May	320,828 312,961 316,490 313,930 348,330	13,241 9,802 7,312 6,966 7,422			77 52 30 34 13
January February March April May June	320,828 312,961 316,490 313,930 348,330 335,557	13,241 9,802 7,312 6,966 7,422 6,633			77 52 30 34 13
January February March April May June July	320,828 312,961 316,490 313,930 348,330 335,557 336,295	13,241 9,802 7,312 6,966 7,422 6,633 5,581			77 52 30 34 13 12
January February March April May June July August	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961			77 52 30 34 13 12 7
January February March April May June July August September	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170			77 52 30 34 13 12 7 8 32
January February March April May June July August September October	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300			77 52 30 34 13 12 7
January February March April May June July August September	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170			77 52 30 34 13 12 7 8 8 32 57
January February March April May June July August September October	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232			77 52 30 34 13 12 7 8 32 57 144
January February March April May June July August September October November December Totals	$\begin{array}{c} 320,828 \\ 312,961 \\ 316,490 \\ 313,930 \\ 348,330 \\ 335,557 \\ 336,295 \\ 364,671 \\ 379,038 \\ 389,992 \\ 375,866 \\ 4,154,334 \\ \end{array}$	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442	200	2,855	77 52 30 34 13 12 7 8 32 57 144 456 922
January February March April May June July August September October November December	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco	200 200 Routt	2,855 2,855 Weld	77 52 30 34 13 12 7 8 32 57 144 456 922
January February March April May June July August September October November December Totals Months January	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430	200 200 Routt 93,073	2,855 2,855 2,855 Weld 65,473	77 52 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270
January February March April May June July August September October November December Totals Months January February	20,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354	200 200 Routt 93,073 86,192	2,855 2,855 Weld 65,473 37,346	77 52 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270 871,185
January February March April May June July August September October November December Totals Months January February March	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197	200 200 Routt 93,073 86,192 42,743	2,855 2,855 Weld 65,473 37,346 30,039	77 52 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003
January February March April May June July August September October November December Totals Months January February March April	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,877	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197 219	200 200 Routt 93,073 86,192 42,743 34,285	2,855 2,855 2,855 Weld 65,473 37,346 30,039 27,646	77 52 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224
January February March April May June July August September October November December Totals Months January February March April May March May May May March May May March May	20,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,877 3,975	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822	200 200 Routt 93,073 86,192 42,743 34,285 62,173	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089	777 52 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158
January February March April May June July August September October November December Totals Months January February March April May June	20,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,877 3,975 3,792	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197 219 190 112	200 200 Routt 93,073 86,192 42,743 34,285 62,173 79,880	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089 11,761	77 52 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158 730,707
January February March April May June July August September October November December Totals Months January February March April May June July June	20,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,877 3,975 3,792 3,636	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822	200 200 Routt 93,073 86,192 42,743 34,285 62,173 79,880 76,540 85,229	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089 11,761 12,182	777 522 300 34 13 122 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158 730,707 714,808 848,736
January February March April May June July August September October November December Totals Months January February March April May June July August	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,877 3,975 3,792 3,638 3,639	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197 219 190 112 103	200 200 Routt 93,073 86,192 42,743 34,285 62,173 79,880 76,540 85,229	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089 11,761	777 522 300 34 13 122 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158 730,707 714,808 848,736
January February March April May June July August September October November December Totals Months January February March April May June July August September	20,828 312,961 316,490 313,930 348,330 335,557 336,295 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,608 3,608 3,608 3,608 3,792 3,792 3,863 3,929 3,863 3,929	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197 219 190 112 103 60 307 355	200 200 Routt 93,073 86,192 42,743 562,173 79,880 76,540 85,229 81,399 84,246	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089 11,761 12,182 20,397 37,255 50,184	777 52 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158 730,707 730,707 731,4808 848,736 931,790 1,041,392
January February March April May June July August September October November December Totals Months January February March April May June July August September October November	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,877 3,975 3,792 3,636 3,929 3,863 1,792 1,243	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197 219 190 112 103 60 307 3555 596	200 200 Routt 93,073 86,192 42,743 34,285 62,173 79,880 76,540 85,229 81,399 84,246 95,131	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089 11,761 12,182 20,337 37,255 50,184 66,906	777 522 300 34 13 122 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158 730,707 714,808 848,736 931,790 1,041,392 1,041,392 1,133,126
January February March April May June July August September October November December Totals Months January February March April May June July August September October	320,828 312,961 316,490 313,930 348,330 335,557 336,295 360,376 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,877 3,975 3,792 3,636 3,929 3,863 1,792 1,243	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197 219 190 112 103 60 307 355	200 200 Routt 93,073 86,192 42,743 562,173 79,880 76,540 85,229 81,399 84,246	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089 11,761 12,182 20,397 37,255 50,184	77 522 30 34 13 12 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158 730,707 714,808 848,736 931,790 1,041,392
January February March April May June July August September October November December Totals Months January February March April May June July August September October November	20,828 312,961 316,490 313,930 348,330 335,557 336,295 364,671 379,038 389,992 375,866 4,154,334 Pitkin 5,280 5,078 3,608 3,608 3,877 3,975 3,792 3,636 3,929 3,863 1,792 1,243 1,440	13,241 9,802 7,312 6,966 7,422 6,633 5,581 6,961 11,170 15,300 21,232 20,822 132,442 Rio Blanco 430 354 197 219 190 112 103 60 307 3555 596	200 200 Routt 93,073 86,192 42,743 34,285 62,173 79,880 76,540 85,229 81,399 84,246 95,131	2,855 2,855 Weld 65,473 37,346 30,039 27,646 21,089 11,761 12,182 20,337 37,255 50,184 66,906	777 522 300 34 13 122 7 8 32 57 144 456 922 Total 1,015,270 871,185 679,003 654,224 740,158 730,707 714,808 848,736 931,790 1,041,392 1,041,392 1,133,126

TABLE No. 26

SHOWING BY COUNTIES INCREASE OR DECREASE OF PRODUCTION, 1915-1916.

Counties	1915	1916	Increase	Decrease
Archuleta	1,255			1,255
Boulder	0 = 4 0 0 0	1,061,250	89.890	1,500
Delta	0 4 0	76,986	00,000	854
El Paso		313,184	15.303	001
Fremont		592,091	99,067	
Garfield		132,540		10,419
Gunnison	440 004	511,755	70.791	
Huerfano		1.811.585	213.757	
Jackson	0.0.0.1	43,656	16,675	
Jefferson		149.522	22,569	
La Plata		111,406	4	5,986
Las Animas		4.154.334	1.168,673	
Mesa		132,442	36,639	
Moffat		200		
Montezuma	842	2,855	2,013	
Montrose		922	76	
Pitkin	51,289	41.513		9.776
Rio Blanco		4,775	4,775	
Routt	846,459	919,895	73,436	
Weld	439,860	461,274	21,414	
			-,	
Totals	8,715,397	10,522,185		
Ingress 1016				1 900 799

TABLE No. 27

COKE PRODUCTION IN 1916 BY COMPANIES AND COUNTIES.

	298		Counties Las Animas La Plata	1,962	Tonnage
Totals	1 000	987.977		1.990	987.977

LIST OF FATAL ACCIDENTS WHICH OCCURRED IN THE COAL MINES OF COLORADO DURING THE YEAR NINETEEN HUNDRED SIXTEEN (1916)

- Janaury 6—FRED CADDELL: American; electrician; age, 22 years: married; no children; employed by the Turner Coal Company, at the Turner Mine, Huerfano County; was injured on the 2nd by coming in contact with an electric coal cutter while the same was in motion, and was so severely injured that he died on the 6th inst. Deceased had spliced the cable of the coal cutter and after finishing it, the machine men loaded the machine and were oiling the cutter chain while it was in motion. Deceased had gone to another part of the room for a part of the chain and, returning, passed the live machine and came in contact with it, severing the left leg below the knee, causing his death four days after.
- January 18—PHILIP CARDELLA: Italian; miner; age, 22 years; single; employed by the Rocky Mountain Fuel Company, at the Gorham Mine, Boulder County; was killed by a fall of coal. Deceased and his partner. Sam Perriconi, were shoveling coal into a car on the east side of room 3, off entry No. 75. The place had been visited just prior by the Mine Foreman, and he found that shots had been fired which had shattered the coal and knocked some of it down, and it had also loosened the coal next the roof. Had the men taken the time to ascertain this fact, and either taken it down, or secured it by setting props, the accident, no doubt, would have been avoided.
- 3 January 20-LUIS J. GALLEGOS; Mexican; mule driver; age. 24 years; married; one child; employed by the Colorado Fuel & Iron Company, at the Sopris Mine, Las Animas County; was killed by being crushed between two loaded cars. Deceased was taking three loaded cars from 24th east entry, and the miners on the 2nd south had pushed out a loaded car close to the 24th entry. At the point where this car was standing, the grade is equal to 3%, and instructions were that two sprags be put in the wheels of the car to lower it down to the other cars of the trip. In this instance, the driver neglected to do this, but got in front of it to lead it down to the other cars. Dereased slipped, and was not able to extricate himself in time from between the cars which rushed together, crushing him to death. Consequently, it is apparent that had deceased heeded the instructions to always sprag the car that was lowered to the trip, the accident could have been avoided.
- January 24—JOE CIPPOLENI; Italian; age, 21 years; single: employed by the Victor American Fuel Company, at the

Chandler Mine. Fremont County: was killed by being electrocuted. Deceased was working night shift, driving mule. He and John Dereto, who was working with him the night of the accident, had finished their work and were on their way to the bottom of the shaft to ascend. The mule stables are lighted by electricity. He endeavored to turn off the switch. In this act he came in contact with one of the switch phases, receiving a shock causing his death. The entry in which the accident ocred had been cleaned up just prior to the accident, and a water pipe had been exposed and was allowed to stand up about eight inches above the surface. In reaching for the switch, Cippoleni evidently stepped on the pipe and lost his balance, falling against the switch. Probably, if the water pipe had been level with the surface of the track, the accident would not have happened.

- (5) January 25—DAN LONEFF: Bulgarian: miner; age, 36 years; married; two children; employed by the Colorado Fuel & Iron Company, at the Berwind Mine, Las Animas County; was killed by an electric shock caused by coming in contact with a trolley wire. Deceased had come to the pass-by or double track parting near the 16th east entry off the 2nd south, in order to get a ride in the man trip out of the mouth of the drift, about 4 p. m. In boarding an empty car he, in some way, made a contact with the trolley, which held him two or three minutes. At the point where the accident occurred there were no guard rails along the wire, which was five and a half feet above the rails on the roadway, and six inches sidewise from the car. Deceased got on the car from the opposite side of the wire. Had he been more careful in getting on, and had guard rails been placed along the trolley wire at this point, the accident would not have occurred.
- (6) January 29—J. C. UPDIKE: American; miner: age, 34 years; single; employed by the Yampa Valley Coal Company. Route County; was killed by a fall of rock. At the point where the accident occurred, the roof conditions are more or less rolly and damp, with a draw rock running from a fine edge to the thickness of fifteen inches. The Mine Foreman visited the place twice on the day of the accident, but not that particular point. Deceased had set timbers under the roof and was showeling coal when the fall occurred. He was a very careful miner, and owing to this fact, and the uncertain condition of the roof, the accident can be properly classed as "Unavoidable."
- (7) February 5—MANUEL CIMINO: Italian: miner; age, 53 years; married: three children: employed by the Rapson Coal Mining Company, at the Rapson Mine, El Paso County. Deceased was working on pillar in the 5th N. mining coal along the face of the pillar, when a piece of coal broke off the pillar, thereby liberating a piece of roof coal and rock which fell on

- deceased, causing a broken neck, fracture of skull at base, ribs crushed, and face and upper portion of body bruised. He died instantly. Mine Foreman told Cimino not to work in that part of the pillar, as he did not consider it safe and to stay away from it, but Cimino's partner said that he did not hear the boss say that, and he was there all the time the boss was in the place. Accident was termed unavoidable.
- (8) February 12—JOHN FREIHOLTC; Swede; miner; age, 27 years; single; employed by McNally & Mathews, at the Maitland Mine, Huerfano County; was killed by a fall of rock while at work in room 1 off 1st cross-off off 1st north entry. Deceased was in act of pulling down the rock. The mass of rock was greater than he anticipated, and, in trying to get from under it, was caught against a side prop and the gob. He sustained a fracture of the leg, fracture of jaw and fracture of one rib, which caused laceration of artery and internal hemorrhage. Accident was termed unavoidable.
- (9) March 2—JAMES TONORIS; Mexican; trip-rider; age, 21 years; married; no children; employed by the Oakdale Coal Company, at the Oakdale Mine, Huerfano County; was killed by being crushed by the first car of a slope trip of eleven cars on the trestle work near the tipple. Deceased had detached the rope from the trip after trip had passed over knuckle of the slope; he was in the act of taking the clevis of the draw-bars off the car, when he stumbled, falling in front of the trip. He was pushed by the trip about ten feet from where he fell.
- (10) March 15—JOHN SCHRAUDNER; German; miner; age, 35 years; single; leased and operated the Pollard Mine, Rio Blanco County. Deceased was alone in the mine, and had seemingly discovered that the roof was full of pots and slips. He had set a center prop in the road head, and was working off a shot on the foot wall side preparatory to setting a road prop, which was also lying under the roof-fall with him. There was another slip running the opposite direction, and barely caught with the center prop he had set, and in taking out the coal for the road prop, he had released the rock, which broke off of its own weight and crushed the life out of the deceased instantly. The accident was due to the neglect of the deceased in not properly securing the roof before taking out the coal.
- (11) March 5—PABLO TRUJILLO; Mexico-Indian; laborer; age, 45 years; married; five children; employed by the Colorado Fuel & Iron Company, at the Secundo Coke Ovens, Las Animas County; was blown by wind from top of railroad car loaded with coke, breaking his neck. Deceased was leveling coke on top of C. & S. stock railroad car. The coke had been leveled and he was closing the doors on top of the said car, which caused him to strike the ground on his head. He was taken to the Minnequa Hospital, where he died on the 8th day of March, 1916.

- (12) April 28—NICK MAZACO; Italian; miner; age, 49 years; married; two children; employed by the Louisville Coal & Land Company, at the Firestone Mine, Weld County, and was killed by a fall of coal. Deceased was loading coal in room No. 3 off the 6th west entry. He was working in front of the car and close to the face. His son, who was working with him, was on the gob side of the room. The lower part of the coal had been broken down by the shot, leaving the top part shattered and hanging. While he was either shoveling the coal into the car, or was endeavoring to pick down the loose coal, a fall of about 1,000 pounds of coal fell on him, causing almost instant death. The place was well timbered.
- (13) April 29—DOMENCIO NOCOTERI; Italian; miner; age, 23 years; single; employed by the Colorado Fuel & Iron Company, at the Primero Mine, Las Animas County; was killed by a concrete wall of an overcast at B-7 entry. They had finished the task except pulling down one of the side walls above the floor of the overcast. This wall was held in place by a track rail forty pounds to the yard. They first tried to take down this wall by starting to work from the top. Failing to get quick results, deceased began to mine under the wall, hoping to loosen it; but the rail bracing the wall tilted, and the wall gave way, falling upon deceased, causing such injuries that he died in a few hours later. The deceased made a mistake trying to take down the wall by undermining it. He should have confined his efforts to breaking it down from the top.
- (14) May 20—ALEXANDER CUNNINGHAM: Scotch: Assistant Mine Foreman; age, 41 years; married; four children; employed by the Cedar Hill Coal & Coke Company, at the Toller Mine, Las Animas County; was killed by a runaway of fourteen cars. Deceased, on the day of the accident, was acting as director of slope trips. He had gone down the slope to the 7th south entry and telephoned the engineer that he would ring bell for the trip to go into the 7th south. It was the custom of the engineer to lower the trip to a point about 300 feet above the 7th south entry. The engineer had lowered the trip to the said point, and was about to stop it, when it stopped suddenly of its own accord. He stated that after the rope stopped running off the drum of the engine, that the bell was rung, once near the point where the engineer stops the trip. The grade of the incline of the slope is increased, and it seems that after the trip had passed over a flat part of the slope and reached the greater incline, that the center hitching became detached, and the side hitchings broke and released fourteen cars from the trip, which descended the slope, striking against deceased so that the front cars passed over his body and crushed him to death. It seems that the hitchings were defective.

- (15) June 12—CROCE PETRICONE; Italian; miner; age, 31 years; married; two children; employed by the Colorado Fuel & Iron Company, at the Primrose Mine, Las Animas County; was killed by a fall of top coal. Deceased was working in room No. 21, off the 1st north entry in the 1st west Primero Mine. The coal here was taken from the center of the seam. He and his partner, John Fereno, were mining the left side of the room, which was nine feet wide. Fereno was mining close to the rib or pillar and deceased was mining where there was a prop; also a leg or upright of a set of timbers. A small block of wood was set from the lower part to the upper part of the coal seam, to prevent the upper part from falling. This block was between deceased and his partner. According to Fereno, the deceased had mined the coal on the corner about three feet when it became loose, and while taking down a part of the top coal, it gave way from the roof, crushing his head against a prop, causing instant death.
- (16) June 12—GREGORY ANASTASSOPOULAS; Greek; miner; age, 38 years; married; two children; employed by the Colorado Fuel & Iron Company, at the Starkville Mine, Las Animas County; was killed by a fall of bony coal and rock. Deceased and his partner, Tom Vlahos, were working in room 62, off C-2 entry. The coal and rock, 4 by 3 feet dimension and 14 inches thick, suddenly fell from the roof on deceased, causing instant death. Had another crossbar been set up, as provided for in the timber agreement adopted at this mine, the accident might have been avoided.
- (17) July 3—JUAN CORDOVA; Mexican; miner; age, 37 years; married; five children; employed by the Colorado Fuel & Iron Company; was killed by a fall of rock in room 10, 1st cross, off east 11th entry. Cordova came to the mine on the above date to take his tools in and see his working place. The machine man, John Bottelero, took him in and told him he would have to take down some rock and set timbers before it would be safe to work in the room. Cordova replied that he would not work that day, that he had no ax and no oil. About 10:30 the Mine Foreman visited the place, but did not see Cordova. About 11:30 he returned and when near to room 10, Cordova called to him for a light and told him he was hurt. I consider the Mine Foreman largely responsible for this accident, because he apparently delegated the machine man, Bottelero, to show the deceased his place of work, and also because there was a shortage of timber in the place. The Mine Foreman, or his assistant, should have taken the deceased to his working place and seen that the same was in a safe condition.
- (18) July 7—E. W. BRUNER; American; stationary engineer; age, 29 years; married; one child; employed by the Utah Fuel Company, at the Somerset Mine; Gunnison County; was killed

- by the bursting of a 10-inch steam line, caused by a defective ell. This defect was not visible until after the accident happened, and, therefore, the accident was unavoidable.
- (19) July 13—Y. MIYAGI; Japanese; miner; age, 35 years; married; no children; employed by the Oakdale Coal Company, at the Oakdale Mine, Huerfano County; was killed by coming in contact with a moving car. The car was held in place by a rope attached to a snubbing post. The top coal fell, discharging the post and allowing the car to run away. The Mine Foreman visited the place about twenty minutes before the accident happened and considered it in a safe condition. From the evidence obtainable, and from personal observation, we are of the opinion that the accident was unavoidable.
- (20) July 20—FRANK MORELLI; Italian; boss driver; age, 38 years; married; five children; employed by the Colorado Fuel & Iron Company, at the Berwind No. 3 Mine, Las Animas County; was killed by a fall of rock and coal. The accident occurred in the 5th dip off the slope. The roof at this point was considered good, and close timbering was not required; therefore there was a wide space without any props to support the roof. From some cause it gave way and fell, slightly injuring G. Di Morco, who was working with Morreli but the latter was injured to such an extent by the fall that he died eight and one-half hours later. The accident was unavoidable, because there was no evidence that the rock was loose before it fell.
- (21) July 25—G. W. STEPHENS; Colored; miner; age, 43 years; married; no children; employed by the Colorado Fuel & Iron Company, at the Primero Mine, Las Animas County; was killed by a fall of rock while working on a pillar in room No. 19. Deceased and his partner, Robert Lincoln, were loading a car when the roof under which they were working began to break. They tried to push the car from under it, when a piece of the roof fell, crushing the deceased. The place was well timbered, and the accident was unavoidable.
- (22) July 29—JOHN BORELLA; Italian; miner; age, not given; married; two children; employed by the Colorado Fuel & Iron Company, at the Morley Mine, Las Animas County; was killed by a delayed shot which caused a fall of rock. Deceased was acting as temporary shot-firer, and Fred David had three shots to fire the night of the accident. They had charged and tamped three holes; deceased had ignited the fuse of shot on the left side, and David tried to ignite the shot on the right side, but it did not take effect. Borelli came over and tried his hand at it and apparently failed, and instead of getting away and waiting results as David asked him to do, he persisted, and the result was that the shots took effect and blew out the charge with great force, so that he was injured by the fall of rock to such

- an extent that he died a short time after. The responsibility of the accident can be charged to the carelessness of the deceased himself.
- (23) August 2—TONY RIZZO; Italian; miner; age, 38 years; single; employed by the Temple Fuel Company, at the Kenneth Mine, Las Animas County, with his brother, John, in the 1st entry off the slope cutting through a chain pillar. The roof at the point where they were working was good, but there occurred a draw rock over the bony coal, and John Rizzo asked deceased to take it down. He tried to take it down, but failed, and he started to work again under it without putting up props to secure it. The result was that in a few minutes the rock fell on deceased, causing such injuries that he died a short time after. The accident may be charged to the carelessness of deceased.
- (24) August 8—TONY MAMOS; Russian; motorman; age, 31 years; married; four children; employed by the Colorado Fuel & Iron Company, at the East Morley Mine, Las Animas County; was killed by a fall of rock. The evidence showed that deceased and Tony Vigil were each driving a six-ton electric motor and were pulling a trip of eight cars up the 3rd south entry, and had reached a point twenty-five feet distant from where the accident occurred, and here they were stopped by Assistant Mine Foreman W. M. Farris, who warned them that the roof ahead was breaking, and that it was dangerous for them to proceed. They disregarded the warning and proceeded another ten feet, when Vigil told deceased to put the power onto his motor and get off. Instead of doing this, deceased put the power onto his own motor, and continued. result was that before the first motor had passed out of the part where the roof was breaking, the fall of rock came, covering the second motor, which Mamos was driving, and killed him. The fall of rock broke three sets of timbers which were in a decayed condition. There was a slip on each of the roads, making a junction four feet up. The Assistant Mine Foreman should have seen that the men turned back, and the men are to blame for not heeding the warning.
- (25) August 11—WILLIAM LA SALLE; American; driver; age, 23 years; single; employed by the Big Lake Coal Company, at the Big Lake Mine, Boulder County; was killed by an electric shock. A defective rail threw a loaded car off the track at a switch going into the back north main entry. Deceased tried to lift the car back on the track, using a prop as a fulcrum, and a piece of bent rail as a lever. He apparently raised the car some distance, when the lever turned or slipped, allowing the car to drop back and the lever to fly up, striking him over the head, throwing him against electric wires and giving him a shock which caused his death. The deceased showed poor judgment when he used a bent rail for a lever, and his death can

be charged to his own carelessness. The company also was at fault in not keeping the rail track in good condition.

- (26) August 26—GUERINO VILOTTI; Austrian (sister Marie in Leganizano, Teago); miner; age, 26 years; single; employed by the Cedar Hill Coal & Coke Company, at the Toller Mine, Las Animas County; was killed by a fall of rock in room No. 3, off the 3rd cross, off the 7th south entry. The roof is soft slate, and is dangerous and requires careful propping. Had the deceased timbered his working place according to method of timbering agreed upon at this mine, and in addition had the roadway been timbered with cross-bars every four feet, it would probably have held the rock in place. There were plenty of timbers close at hand. The responsibility of the accident rests with the dead man.
- (27) August 31—JOHN YOUHOUSE; American; rope-rider; age, 18 years; single; employed by the Mutual Coal Company, at the Mutual Mine, Huerfano County; was killed by being struck by a trip of empty cars. Deceased was taking his trip into 2-E entry, when he felt the jerk of a car derailing. He jumped off to see what caused the derailment. The trip was not moving fast and there was ample clearance between cars and rib. The front car was derailed on the long side of the curve, while it was the natural tendency to derail with the pull of the rope on the short side of the curve. He was struck by a car and crushed to such an extent that he died an hour afterwards. No responsibility for his death can be charged to any one.
- (28) September 23—MARTIN KINK; German; timberman; age, 46 years; married; six children; employed by the Rocky Mountain Fuel Company, at the Gorham Mine, Boulder County; was killed by a fall of rock and dirt. Deceased and his partner, Eugene Faux, were pulling timbers in room stump No. 1, off 5th east entry. Deceased was knocking out timbers with an ax instead of using a prop puller, which is the proper tool for this kind of work. A fall of rock and dirt came down unexpectedly, covering deceased completely, and smothered him to death before he could be extricated. This accident could have been avoided had deceased used a prop puller instead of trying to hasten his work by the use of an ax.
- (29) September 25—ALEX MARTINEZ; Mexican; age, 35 years; married; no children; employed by the Rocky Mountain Fuel Company, at the Piedmont Mine, Las Animas County; was killed by a fall of rock. The accident took place in pillar room No. 11, off the 1st blind entry, off the 9th west entry. Here two cleats occurred, running about six feet apart. At this point, eleven feet from the roadway where the roof is brushed or taken down two feet, to make height for the car, a smooth slip started at about 45 degrees and ran towards the roadways into the above mentioned cleats, and to a smooth in the roof rock

about two feet up. The rock that fell on deceased came from between the two cleats and the slip. When the rock began to break loose from the slip, it discharged two props near the road. Had the deceased set up four props under the rock as required by timbering agreement adopted at this time, instead of two props, the accident might have been avoided.

- (30) September 30—JOHN WURZER; Austrian; miner; age, not given; married; no children; employed by the Palisade Coal & Supply Company, at Palisade Mine, Mesa County; was injured by a fall of rock on the 8th of September, and died on the above date. Deceased was working in room No. 37 off 1st cross entry when a piece of draw slate about two and one-half feet wide and six feet long fell, striking him, inflicting such injuries that he died twenty-two days later. He evidently tried to take down this rock and failed. In under-mining, he dislodged its support, causing it to fall. There is about four inches of draw slate which has to be taken down when the coal is removed. The working place was timbered according to agreement, and there was plenty of material on hand to keep the working place in safe condition. The deceased was responsible for the accident, as he did not set a prop to secure the rock when he found he was unable to take it down.
- (31) October 1—CONSTANTE WEBBER; Tyrolese; machine helper; age, not given; married; three children; employed by the Carbon Coal & Coke Company, at the Cokedale Mine, Las Animas County; was injured by a fall of rock on September 29th, and died October 1st. Deceased was working in the chain pillar along the 1st south entry. According to evidence obtained from Eugene Martin, the machine runner, he (Martin) had examined the roof and found it in good condition, and he had set up four props. While the machine was running, the coal that was being cut gave a sudden burst, and he called the deceased to look out, but the slab of rock fell between the props and on the deceased, causing such injuries that he died two days later. Responsibility for this accident cannot be placed on any one.
- (32) October 14—NICK DELDUCA; Italian; miner; age 56 years; married; four children; employed by the Victor American Fuel Company, at the Chandler Mine, Fremont County; was killed by a fall of rock. Deceased had taken down some coal on the face directly in front of the roadway. While in the act of loading a car, a rock fell, knocking him down and a chunk of coal struck him on the forehead, causing instant death. It seems evident deceased had not examined his working place before starting to work. Had he done so, the accident might have been avoided.

- (33) October 28—FILO ZURICH; Hungarian; driver; age, 24 years; married; one child; wife living in Louisville; employed by the National Fuel Company, at Monarch Mine No. 2, Boulder County; was injured on October 14th, being squeezed between door and loaded pit car, and died from the effects on October 28th. Deceased had landed three loaded cars on the parting at the entrance of the 5th south-west entry from where they are taken to the hoisting shaft by the main south driver. The 5th southwest parting has a grade of 3% in favor of the loads, the cars are held on the parting by sprags, and in order to get the cars on the main south entry a trap door has to be opened. The main south driver had taken two of the three cars from the 5th southwest parting through the door. The deceased closed the door before getting away from it. The third car which had been left on the parting, apparently without being spragged, caught him between it and the door, causing such injuries that he died fourteen days later. The accident might have been prevented had sufficient sprags been put on the third car to hold it on the parting. The deceased apparently was responsible for this car not being spragged.
- (34) November 7—WALTER RYMES, (also Ryenkevz); Pole; miner; age, 49 years; single; employed by the Loma Fuel Company, at the Loma Mine, Huerfano County; was injured by a fall of rock on the above date, and died at the Minnequa Hospital, Pueblo, November 13th. The accident occurred on the cross cuts of room 34, off the main back entry. The parties that were near him when he was injured, had left the mine when the investigation was made, and consequently, no witnesses were present to give testimony. The mine foreman stated that the place was in fair condition when he was in the place prior to the accident. The evidence was so insufficient that the responsibility for the accident could not be placed.
- (35) November 14—JAMES PAPPAS; Greek; miner; age, 37 years; married; two children; employed by the Tioga Coal Company, Tioga Mine, Huerfano County; was injured by a fall of rock and died on the 18th of November. The accident occurred in the first west angle pillar. The mine foreman had examined the place three hours previous to the fall of rock and found it in good shape. When Pappas started to work, he first sounded the roof and found it safe according to a statement of his partner, Chas. Jafas. He proceeded to extract coal from the pillar when suddenly a pot of rock from the roof fell, striking him and causing such injuries that he died four days later. This might be classed an unavoidable accident.
- (36) November 20—THOMAS CORDOVA; Mexican; assistant fireman; age, 45 years; married; two children; employed by the Colorado Fuel & Iron Company, at the Starkville Mine,

Las Animas County; was injured (back broken) by falling off the trestle and died December 11th, 1916. Deceased and Stephen Ortega were dumping a car of coal into the chute. The front end of the car was caught on the rail on one side. He endeavored to free the car with an iron bar which slipped and caused him to lose his balance, and he fell off the trestle to the ground, a distance of 16 feet, breaking his back, from the effect of which he died December 11th. Had there been a guard rail on the sides of the trestle work this accident might have been avoided.

- (37) November 23—TONY SKOLL; Austrian; timberman; age, 32 years; widower; one child (father in Kastel Nova, Austria); employed by the Victor American Fuel Company, at the Pinnacle Mine, Routt County; was injured by a fall of rock and died the following day. Men working in C back-slope had informed the mine foreman that it was not safe to work there, as there was much loose rock hanging from the roof. Deceased was ordered to secure the roof and he proceeded with his partner to take down the loose rock, but did not complete the task, believing that the balance of the rock was safe when secured by a set of timbers. While preparing to set up crossbars, a piece of rock 1 feet long and 3½ feet wide, and running from eight inches thickness to a feather edge, fell on deceased, causing such injuries that he died the following morning. The accident might have been avoided, had deceased exercised more care, but as he worked as a timberman only ten months, it is possible that the lack of experience might be charged.
- (38) November 29—MATT TURKOVICH; Austrian; miner; age, 20 years; single (brother Turkovich at Rockvale, Colo.); employed by the Colorado Fuel & Iron Company, at the Fremont Mine, Fremont County; was injured by a fall of coal on the above date and died December 2nd. The accident occurred in room No. 1, 3rd right off 3rd dip-entry. He had fired a shot in the road head, and it failed to pull all the coal down. He then tried to take it down with a pick, and not being able to do so, began to undermine it when it came down on him, injuring him to such an extent that he died three days later. His partner was not with him when the accident occurred, and could not state whether he had spragged the coal before undermining it. There were two short props lying near the coal which had been used as sprags before the shots were fired.
- (39) December 3—GEORGE BELOS; Greek; miner; age, 27 years; single; employed by the Yampa Valley Coal Company, at the Yampa Valley No. 6 Mine, Routt County; was killed by being crushed under a hoist. A trip of seven cars was being dropped down the main plane, when in some manner the hoist was raised about three and one-half feet from the ground and fell back on deceased, smothering him to death. The accident

could have been avoided had the engine been properly placed, braced and anchored.

- (40) December 6—JOHN LEWIS; Greek; mule driver; age, 28 years; married; no children; employed by the Cedar Hill Coal & Coke Company, at the Toller Mine, Las Animas County; was injured by being crushed between a mule and an empty car and died from his injuries on December 9th. Jose Vantetes was loading a car at the face of room No. 8 off the fourth cross entry off the 7th south entry. In adjusting the coal in the car, it started to move towards the entry, having a grade of two per cent. Vantetes tried to stop the car, but it got away and ran down the entry 400 feet, meeting the mule pulling an empty car with the driver. The collision killed the mule and injured the driver so seriously that he died three days later. The mine foreman had been asked three times during the year by this department to place safety blocks in all rooms having a grade. Had this recommendation been complied with, the accident would have been avoided.
- (41) December 9—FARICINO CESEROLI; Italian; miner; age, 26 years; single; employed by the Colorado Fuel & Iron Company, at the Walsen Mine, Huerfano County; was killed by a fall of rock. This accident occurred in a room and deceased was working alone. He was found under a rock by C. Davis, the driver. It was evident he was killed instantly. There were no eye-witnesses to the accident. The mine foreman and fire-boss reported the place in good condition and well timbered. From evidence and observation, the conclusion is that the accident was unavoidable.
- (42) December 12—F. B. SHOTT; American; miner; age, 53 years; married; no children; employed by W. D. Stokes, at the Stokes Mine, Mesa County; was killed by a fall of rock. Deceased had worked off part of the lower seam, leaving about 14 inches of top coal, which he was taking down with a pick. While bending over to move a chunk of coal, the top fell, striking him on the back of his head, killing him instantly. The mine foreman had visited the place just five minutes prior to the accident. The place was well timbered. No blame for this accident can be charged to any one.
- (43) December 14—VIRGIL SWAN; American; driver; age, 28 years; single; employed by the Oakdale Coal Company, at the Oakdale Mine, Huerfano County; was injured by being crushed between cars, and died on the 16th. Deceased was driver for the night shift. He was bringing an empty car into the slant cross-cut switch with such speed, that it created a momentum so great that when it came in contact with a loaded car, it derailed the latter and threw the deceased between the cars and crushed him so seriously that he died two days later. The accident may be charged to the negligence of

the entry man in bringing the loaded car too far out on the switch and not leaving the proper clearance.

(44) December 20—EMIL CALMETTE: American; miner; age, 24 years; single; employed by the Colorado Fuel & Iron Company, at the Coal Creek Mine. Fremont County; was electrocuted by coming into contact with electric light wires. The deceased was found dead, lying partly under the bell wires on the 9th south parting. There had been a derailment on the 11th south parting a few minutes before Calmette was found dead, which had knocked out a set of timbers and the fall of rock caused thereby had thrown the electric light wires down on the bell wires charging the signal line heavily. The men in charge of the trip that had been derailed received shocks from the cars and they immediately cut the wires, which were contracting with signal wires. The deceased was helping the track layer, and he had just brought some tools out to this parting, and either touched the bell wires accidentally or otherwise, not thinking they were dangerous. It is not definite that deceased met his death from an electric shock, but the surgeons who held the autopsy were of the opinion that electricity was the cause. Responsibility can be placed on no one as the electric wires were insulated and put up in approved manner.

LIST OF SHOT-FIRERS HOLDING CERTIFICATES FOR GASEOUS MINES ISSUED DURING THE YEAR 1916

Certifi-	Cer	*:6
	Name and Address cate	No.
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Aldratte, Frank, Toltec604	Liddla, William, Starkville	620
Arthur, John, Oak Creek 534	Lorenzi, August, Lester	619
Balson, Antonio, Ojo	Luh, Frank, Tioga	603
Barcelona, Jim Valdez 516	Martin, Louis C., Bowen.	637
Bertram, Thos., Mt. Harris654	Martinez, Candido, Sopris	
Bianchi, Mass, Sopris	Mastraino, Dominick, Lafayette	615
Biella, John, Louisville	McCormick, Sam, Delcarbon	587
Binks, Jack, Shumway	McCune, Robert, Delagua	184
Bokan, Mike, Brodhead	McNeil, Neil, Walsenburg	648
Bond, V. D., Mt. Harris	McGuinn, John, Primero.	575
Brown, A. C., New Castle579	Merchant, Jas. E., Oak Creek	
Boyle, I. W., Longmont	Morgan, Jas., Lafayette	
Boyle, Orville, Longmont503	Morgan, Wm. Thos., Oakview	
Burris, C. W., Rouse, Colo537	Noon, James, Dacona	
Carrick, William, Lafayette616	Nortuck, Frank, Louisville	
Chubuhar, Jos., Shumway P. O652	Pernich, Jno., Primero	
Coppozzo, Fortunato, Rugby 643	Pickford, Edwin, Lafayette	
Corfield, James, Lafayette	Powell, Charles A., Farr.	
Cerne, Fritz, Lafayette		
Cook, Robert, Ravenwood628	Porta, Henry, Louisville	031
Cornali, John, Tollerburg533	Romero, Eulogio, Valdez	012
Cristoff, Anton, Ideal 538	Roberts, David G., Oakview	010
Davis, E. F., Forbes	Saulsbury, C. E., Firestone	
Doumiller, Geo., Toltec	Schewkier, Leo W., Ravenwood	
Di Pietra, Frank, Sopris	Schweiger, Jas., Lafayette	. D . 4
Dominic, Stephen, Ideal	Scott, George, Sopris	.582
Dowds, Hugh, Delcarbon588	Shubert, James, Maitland	.694
Engleby, John, Morley517	Snyder, Joseph, Lafayette	400
Follett, Eli, Louisville646	Spoors, William, Tioga	.636
Gardner, Thomas, Toltec596	Sweeney, Andrew E., Primero	.566
	Titsworth, Geo., Valdez	574
Gillis, William, Lafayette494	Tofflin, W. R., Walsenburg Todd, Andrew, Toltec	.528
Glanville, W. T., Bromfield	Todd, Andrew, Toltec	.539
Glavach, John, Lafayette	Tomatick, Egan, Forbes	.565
Gregory, Thos., Berwind	Topping, Robert, Jr., Ravenwood.	627
Hinkle, P. K., Valdez	Toth, Joe, Primero	.508
Hughes, John, Bear River536	Trew, N. H., Farr	621
Hutchison, Jas., Lafayette463	Tuna, Ernest, Sopris	.584
Kelley, Pat, Frederick	Vecchio, Fiore D., Morley	.518
Kerr, Newton, Lafayette496	Visich, Pete, Walsenburg	459
Koebbler, Joe, Lafayette464	Vornica, Joe, Berwind	
Irons, David, Walsenburg483	Walton, Arthur, Lafayette	618
Johnson, Fritz, Frederick	Watson, John, Forbes	.564
Johnson, William, Farr	Weinberg, Gus, Lafayette	
Jones, John E., Lafayette500	Williams, Morgan, Mt. Harris	655
Jones, Robert, Berwind	Williams, John T., Sopris	
Jumper, Ed., Rouse		
Landis, M. L., Lafayette	Zamko, John, Primero	116
To Salle T W Louisville 611	Zorien John Strong	244



LIST OF SHOT-FIRERS HOLDING CERTIFICATES FOR NON-GASEOUS MINES ISSUED DURING THE YEAR 1916

Cer	tifi-	Cei	rtifi-
Name and Address cate	No.	Name and Address cate	e No.
Allan, D. M., Lafayette	.489	Hilton, William, Louisville	449
Anderson, David, Baldwin	.608	Hortuagle, Mike, Gorham Mine	455
Anderson, Sam, Gorham, care)	Johnson, Ross, Louisville	
mine	.529	Kariavalys, Nick, Lafayette	
Barclay, James, Frederick	.568	Katch, John, Strong	562
Debevec, Anton, Colorado Springs.	.475	Kerr, Thomas P., Superior	462
Becker, Paul, Oak Creek	.477	Kruger, Richard, Palisade	642
Beveridge, Thos., Louisville	.472	Krustich, Andrew, Crested Butte	607
Biella, John, Louisville		Lamb, Geo., 1509 N. Corona St	.,
Bold, Richard, Colorado Springs.		Colorado Springs	
Boussman, Herman, Louisville Brown, Richard, Gorham	459	Lemberg, Joe, Lafayette	4493
Bruce, J. A., Oak Creek	479	Manning, Frank, Superior	
Butler, Oliver, Dacona	506	Marco, S., Frederick	641
Chakaras, Nick, Pallas	601	McNeill, Thos., Crested Butte	578
Chamberlain, Bert		Miller, John, Oak Creek	
Coliff, Coli, Louisville	471	Moore, Frank, Superior	
Cox, George, Oak Creek	.650	Morgan, John, Louisville	467
Cregger, S. J., Glenwood Springs.	.577	Morgan, Thos. P., Erie	501
Davis, Isaac, Downer	.458	Nosack, Frank, Fruita	645
Davis, Richard R., Frederick	.624	Paulek, Victor, Hesperus	613
Davis, Thos., Lafayette Davis, W. F., Pallas	.487	Pena, J. N., Lafayette	466
Davis, W. F., Pallas	.649	Peters, Gustave, Lafayette	497
Defler, Joe, Louisville	.633	Peter, Paul, Gorham Mine	451
Degardain, Edward D., Gorham	.530	Peterson, Chas., Oak Creek	476
Dero, Charles, Louisville	.019	Reese, David, Lafayette	523
Dimetroff, Mike, Lafayette	519	Rees, Jas., Erie	005
Di Paola, Antonio, Frederick Dohlman, Andrew, Baldwin	610	Rees, John, Lafayette	512
Dohlman, David, Baldwin	609	Scalabrim, E., Ideal, Colo	599
Dole, J. R., Oak Creek		Seal, Fred C., Mt. Harris	653
Domenico, Vincent, Firestone	510	Sime Sam Lafavette	525
Dospot, Steve, Oak Creek	.651	Sims, Sam, Lafayette Sirokman, Geo., Louisville	647
Eller, Clem, Oak Creek	.535	Stewart, James, Cameo	531
Ennerson, Jas., Lafavette	.485	Steffen, Jake, Cameo	532
Farmer, J. H., Gorham	.453	Stoiauoff, Steve, Gorham Mine	454
Ferguson, Robt., Louisville	539	Tantrum, Thos., Canon City	482
Fidel. A., Fruita	.597	Tesone, Felix, Frederick	511
Fillas, Jas., Gorham Mine	.450	Tezak, Anton, Crested Butte	504
Fishlin, Martin, Firestone	.515	Tiller, Fred G., Arvada	499
Forish, William, Lafayette	.495	Thomas, Clyde, Dacona	638
Fulton, Nick, Oak Creek	.478	Thompson, Henry B., Toltec	585
Garzia, D., Ideal, Colo	009	Tzik, Martin, Crested Butte	606
Graham, Harry, Boulder	190	Vislick, Steve, Ideal	590
Green, Billy, Lafayette	469	Volk, Jno., Crested Butte	505
Gutfelder, Lewis, Louisville Hamilton, F. B., Gorham Mine	456	Wallace, Louis, Firestone	514
Hart, Herman, Lafayette	498	Woodberry, E. D., Erie	634
Helart, Henry, Gorham Mine	623	Zancanella, Laurence, Glenwood.	576
ilciait, litility, dollarii mine		,	



DIRECTORY OF COAL MINES OPERATED IN COLORADO FOR YEAR ENDED DEC. 31, 116.

(Shown by Counties.)

BOULDER COUNTY.

		Name of	
		Manager or	
Name of Mine	Name of Company.	General Supt.	Postoffice
	Mountain Fuel Co		
StandardRocky	Mountain Fuel Co	Geo. T. Peart	Denver
VulcanRocky	Mountain Fuel Co	Geo. T. Peart	Denver
MitchellRocky	Mountain Fuel Co	Geo. T. Peart	Denver
Rex No. 1Rocky	Mountain Fuel Co	Geo. T. Peart	Denver
HeclaRocky	Mountain Fuel Co	Geo. T. Peart	Denver
GorhamRocky	Mountain Fuel Co	Geo. T. Peart	Denver
IndustrialRocky	Mountain Fuel Co	Geo. T. Peart	Denver
Monarch No. 1 Nation	nal Fuel Co	S. Tescher	Denver
	nal Fuel Co		
FoxFox C	oal Mining Co	S. A. Snyder	Denver
MatchlessGreat	Matchless Fuel Co	S. A. Snyder	Denver
Centennial Big F	our Coal & Coke Co	L. B. Cannon	Denver
	ix Coal Co		
	s Fuel Co		
Black Diamond Mitche	ell & Graham		Boulder
Gorham No. 2 Morga	n & Williams		Boulder
*Big LakeBig Lake	ake Coal Co		Denver
	Mile High Coal Co		
	Lewis		
	Coal Co		
StrathmoreStrath	more Mine Co.		Lafayette
	sh Coal Co		

*Mine closed down. †Mine closed down. ‡Formerly New Fox Mine.

DELTA COUNTY.

King Juanita Coal & Coke Co. Farmers Paonia Coal Co.	
Red Mountain Hall & Motto (Red Mountain F. Co.).	Cedaredge
Green ValleyRinehart & Patton	
WintonC. O. Billstrom	
States Chas. G. States	Cedaredge
Black DiamondFarmers Progressive Coal Co.	Paonia
Bennett	Hotchkiss
Converse Frank Converse	Paonia
*CoalbyGus Billstrom	Cedaredge
†RollinsDugger Coal Co	Delta
Leroux Creek J. R. Degraffenried	Hotchkiss
Independent E. J. Weed	Cedaredge
‡FairviewWm. Proutt	Delta

*Mine closed down. †In hands of Receiver J. E. Becky. ‡Mine closed down.

EL PASO COUNTY.

Pikes PeakPikes Peak Fuel Co	Springs
*Patterson Pikes Peak Fuel Co. H. McGarry Colorado	Springs
El Paso	Springs
†Rapson No. 2Rapson Coal Mining Co	Springs
Danville	Springs
WilliamsvilleThomas Coal Co	Springs
Franceville Dan E. Davis Colorado	Springs

*Mine closed down. †Mine abandoned.

FREMONT COUNTY.

Rockvale Colorado Fuel & Iron Co. E. H. Weitzel Pueblo Coal Creek Colorado Fuel & Iron Co. E. H. Weitzel Pueblo Fremont Colorado Fuel & Iron Co. E. H. Weitzel Pueblo Nonac Colorado Fuel & Iron Co. E. H. Weitzel Pueblo Chandler Victor-American Fuel Co. W. J. Murray Denver
Chandler No. 2 (Radlant) Victor-American Fuel Co. W. J. Murray Denver Royal Gorge Gibson Lumber & Fuel Co. Canon City Emerald Williamsburg Slope Coal Co. Williamsburg

DIRECTORY OF COAL MINES OPERATED IN COLORADO FOR YEAR ENDED DEC. 31, 116.

(Shown by Counties.)

BOULDER COUNTY.

			Volume of		
			air current	gauge	
Name of	Mine	Method of	in cubic ft.	develope	
Superintendent	Postoffice	Ventilation	per mine	in inche	es connections
J. W. Griffith	Lafavette	Fan	90,000	1.	C. & S. & C. B. & Q.
Geo. Swearingen	Lafayette	Fan	47,000	2.	C. B. & Q.
Chas. Billington	Lafayette	Fan	35,000	3/4	C. & S.
J. J. Thomas	Lafayette	Fan	32,000	0.6	C. & S. & C. B. & Q.
J. C. Williams	Louisville	Fan	14,000	. 6	C. & S.
J. C. Williams	Louisville	Fan	12,000	1/2	C. & S.
Ed Taylor	Gorham	Fan	48,000	1.	C. & S.
F. J. L. MacCorma	cSuperior	Fan	31,000	0.6	C. & S.
Jas. Etchells	Downer	Fan			C. & S.
O. E. Oliver	Broomfield	Fan	48,000	1.3	C. & S.
J. W. Schultz	Gorham	Fan	29,500		C. & S.
R. S. Husband	Louisville	Fan	18,000		C. & S.
H. B. McFadden	Louisville	Fan	34,020	3/4	C. & S.
Chas. Liley	Louisville	Fan	10,500		C. & S.
W. E. Brooks	Louisville	Fan	22,500		C. & S.
Frank Koenig	Boulder	Blower	1,500		None
	Gorham	Fan	8,400		C. & C.
	Lafayette	Steam Jet			
	Lafayette	Natural			None
	Gorham	Natural	700		None
	Lafayette	Blower			C. & S.
	Lafayette	Fan	14,700		C. & C.
***************************************	Gorham	************	2,800		None

DELTA COUNTY.

W. D. Bowie	Bowie	Fan	87,660	0.3	D. & R. C	ž.
P. B. Jenkins	Paonia	Natural	6,360	None	None	
A. W. Hall	Cedaredge	Natural	1,800	None	None	
C. W. Rinehart	Cedaredge	Natural	3,000	None	None	
C. O. Billstrom	Austin	Natural	3,200	None	None	
Chas. G. States	Cedaredge	Natural	5,000	None	None	
P. B. Jenkins	Paonia	Natural	3,700	None	None	
M. W. Bennett	Hotchkiss	Natural	1,800	None	None	
Frank Converse	Paonia	Natural	3,000	None	None	
Gus Billstrom	Cedaredge	Natural		None	None	
S. A. Dugger	Delta	Natural		None	None	
J. R. Degraffenried	Hotchkiss	Natural		None	None	
E. J. Weed.	Cedaredge	Natural		None	None	
Wm. Proutt	Delta	Natural		None	None	

EL PASO COUNTY.

Robt. O'Neil	Colorado Springs	Fan	50,031	1. %	D. & R. G.
W. K. Anderson	Colorado Springs	Fan			
F. W. Price	Colorado Springs	Fan	47,000	$1.\frac{1}{4}$	C. R. I. & P. & A. T. & S. F.
Pete Mortenson	Colorado Springs	Fan			C. R. I. & P.
W. D. Tudor	Colorado Springs	Fan	6,930		A. T. & S. F.
T. E. Thomas	Colorado Springs	Fan			None
Dan E. Davis	Colorado Springs				None
Dan B. Davis	colorado springs	1 4111400			

FREMONT COUNTY.

Henry Johns Ben Beach J. D. Davis Chas. O'Neil M. E. Summerville	Rockvale Coal Creek Florence Canon City Chandler	Fan Fan Fan Fan Fan	$102,000 \\ 60,000 \\ 40,000 \\ 14,000 \\ 33,600$	0.9	A. T. & S. F. A. T. & S. F. D. & R. G. A. T. & S. F. A. T. & S. F. & D. & R. G.
James Struthers	Pyrolite	Fan	26,000		A. T. & S. F.
C. W. Jones	Canon City	Fan	10,020		A. T. & S. F.
H. J. Smith	Williamsburg	Fa n	11,000		A. T. & S. F.

FREMONT COUNTY—Continued)

		Name of	
		Manager or	
Name of Mine	Name of Company	General Supt.	Postoffice
	okside Coal Co		
WilliePet	ry Coal Co	F	lorence
Double DickMcl	Lean & Gilbert	F	lorence
Orecchio No. 1 Ore	cchio & Rocchio	F	lorence
Wolf ParkWo	lf Park Leasing Co		anon City
	nelly Coal Co		
*Smith-TannerE.	R. Harris	C	oal Creek

GARFIELD COUNTY.

Midland	
Carbonera Gilson Asphaltum Co. Watson, Utah *South Canon South Canon Coal Co. Denver	
Harvey GapHarvey Gap Coal Co	ings

^{*}Mine closed down.

GUNNISON COUNTY.

Somerset
Crested ButteColorado Fuel & Iron Co E. H. WeitzelDenver
Floresta
Alpine
PorterLittell Coal & Mining CoJ. A. LittellDenyer
HoracePueblo Fuel & Mining CoJ. A. LittellDenver
Bulkley
Smith
Baldwin-StarBaldwin Fuel Co
Great WesternJoseph David

HUERFANO COUNTY.

Walsen	blo
Robinson Colorado Fuel & Iron Co. E. H. Weitzel Pue	blo
RouseColorado Fuel & Iron CoE, H. WeitzelPue	blo
Cameron	blo
Ideal	
Lester	blo
Pictou	
Oakdale Coal Co	
Mutual	iver
RayenwoodVictor-American Fuel Co	ver
Pryor Union Coal & Coke Co. Den	ver
RelianceAlliance Coal Co	iver
ToltecAztec Coal Mining Co	iver
Big Four Big Four Coal & Coke Co. Den	iver
SunnysideSunnyside Coal Mining Co	iver
Rugby	iver
Turner Coal Co	lsenburg
Caddell Black Canon Fuel Co. Den	
VestaVesta Coal Mining CoDen	
TiogaTioga Coal CoDen	
Maitland McNally & Co	lsenburg
BreenBreen Coal Mining CoWa	
Loma Loma Fuel Co	lsenburg
LarimoreMonument Valley Coal CoColo	orado Springs
Solar (Rockland)Walsenburg Coal Mining Co	
Gordon Gordon Coal CoWa	lsenburg
PinonRocky Mountain Fuel CoGeo. T. PeartDen	ver
Black CanonNew Maitland Coal Co	
*OjoOjo Canon Coal CoOjo	

^{*}Mine closed down.

JACKSON COUNTY.

Coalmont	Northern Colorado Coal	Co	Coa	lmont
Moore	North Park Coal Co.	J. M.	PurdickFt.	Collins

^{*}Mine closed down.

FREMONT COUNTY—Continued) Volume of Water

Name of Superintendent	Mine Postoffice	Method of Ventilation	air current in cubic ft. per mine	developed	Railroad connections
John Lippis Sam Petry Geo. McLean Thos. Orecchio Thos. Hilton Henry Donnelly E. R. Harris	Canon City Florence Florence Canon City Florence Coal Creek	Natural Tunnel Natural Natural Natural Natural Natural	18,000 80 6,020 3,000 4,000 1,800	Nor	ne ne T. & S. F. ne ne

GARFIELD COUNTY.

J. E. Smith Thomas Gibby	Sunlight Newcastle	Fan Fan	24,000 30,000	C. M. C. M.
Homer D. Ford	Mack	Natural	10,000	 Unitah R. R.
Evan Thomas	South Canan	Fan		 C. M.
L. D. Merschman	Glenwood Sprgs.	Natural		 None

GUNNISON COUNTY.

HHEREANO COUNTY.

	110	MILL ANO	COUNTI	•	
W. S. Getchell	Walsen	Fan	120,000	0.7	C. & S. & D. & R. G.
W. S. Getchell	Walsen	Fan	82,000	1.5	C. & S. & D. & R. G.
W. G. Deck	Rouse	Fan	100,000	2.7	D. & R. G.
C. C. Kaiser	Fair	Fan	40,000	2.6	C. & S.
W. J. Tyson	Ideal	Fan	28,000	0.8	C. & S.
W. G. Deck	Lester	Fan	46,000	1.6	D. & R. G.
W. S. Getchell	Pictou	Fan	16,000	1.3	D. & R. G.
W. L. Morgan	Oakview	Fan `	41,780		D. & R. G.
R. F. Poli	Walsenburg	Fan	50,000		D. & R. G.
D. E. Davis	Ravenwood	Fan	35,000	1.	C. & S.
Chas. Benchat	Pryor	Fan	27,000		D. & R. G. & C. & S.
C. D. Lehew	Ojo	Fan	30,000		D. & R. G.
S. B. Smith	Toltec	Fan	30,000		D. & R. G. & C. & S.
Robert Hood	Tioga	Fan	30,000		D. & R. G. & C. & S.
H. M. Graves	Strong	Fan	10,500		
Thos. McLaughlin		Fan	10,350		D. & R. G. & C. & S.
Ira D. Zook	Walsenburg	Fan	61,000		D. & R. G. & C. & S.
Hugh McGinn	Walsenburg	Fan	33,000		C. & S. & D. & R. G.
Robert Turner	Camp Shumway	Fan	12,400		C. & S. & D. & R. G.
Joe Humphrey	Tioga	Fan	28,000		D. & R. G.
Geo. McNally	Maitland	Fan	50,000	2.5	D. & R. G.
M. T. Brennan	Walsenburg	Fan	15,000		C. & S. & D. & R. G.
Joe Ball	Walsenburg	Fan	34,900	0.7	C. & S. & D. & R. G.
Leo McCormac	Strong	Fan	30,000		D. & R. G.
T. J. Stone	Walsenburg	Fan	20,000		D. & R. G.
R. T. Bell	Walsenburg	Fan	14,700		D. & R. G. & C. & S.
John Simpson	Camp Shumway	Fan	7,000		D. & R. G. & C. & S. D. & R. G.
J. T. Thompson	Walsenburg	Fan	8,400		D. & R. G. D. & R. G.
Peter Fern	Ojo	Natural			D. & It. G.

JACKSON COUNTY.

R. J. Van Volkenburg	Coalmont	Fan	21,600		C. W. & E.
Wm. Peachey	Coalmont	Natural	22,000	0.2	C. W. & E.

JEFFERSON COUNTY.

	Name of	
27 4 261	Manager or	
Name of Mine Name of Company Leyden No. 2Leyden Coal Co	General Supt.	Postoffice
Justrite	F. A. Perry	Golden
TA DIAMA GOT	1210127	
LA PLATA COU		
Perins PeakCalumet Fuel Co	W. C. Ferguson	Denver
Hesperus Porter Fuel Co	L. G. Eakin	Denver
O. KO. K. Coal Co.		Durango
Sunshine		Durango
LAS ANIMAS CO		
PrimeroColorado Fuel & Iron Co		Pueblo
		400.0
Frederick	E. H. Weitzel	Pueblo
Frederick	E. H. Weitzel	Pueblo
MorleyColorado Fuel & Iron Co	E. H. Weitzel	Pueblo
BerwindColorado Fuel & Iron Co	E. H. Weitzel.	Pueblo
TabascoColorado Fuel & Iron Co	E. H. Weitzel	Pueblo
StarkvilleColorado Fuel & Iron Co DelaguaVictor-American Fuel Co	W. J. Murray	Denver
HastingsVictor-American Fuel Co		
BowenVictor-American Fuel Co	W. J. Murray W. J. Murray	Denver
Cokedale Nos 1		
and 2	George T Peart	Denver
And 2 Carbon Coal & Coke Co. Forbes No. 9 Chicosa Fuel Co. Forbes No. 6 Chicosa Fuel Co. Toller Cedar Hill Coal & Coke Co. Greenville Cedar Hill Coal & Coke Co. Black Diamond Cedar Hill Coal & Coke Co. Brodhead No. 9 Temple Fuel Co. Kenneth Temple Fuel Co.	George T. Peart	Denver
Forbes No. 6Chicosa Fuel Co	George T. Peart	Denver
Greenville Cedar Hill Coal & Coke Co.	D. M. Harrington	Denver
Black DiamondCedar Hill Coal & Coke Co	D. M. Harrington	Denver
Kenneth Temple Fuel Co		Trinidad Trinidad
Kenneth Temple Fuel Co. Royal Royal Fuel Co. Ludlow Huerfano Coal Co.	S. Tescher	Denver
Ludlow		Denver
Primrose Primrose Coal Co Jeffryes Jeffryes Fuel Co. Rapson No. 1 Rapson Coal Mining Co Jewel Ideal Coal Co. Wootton Turner Wootton Land & Fuel Co		Trinidad
Rapson No. 1Rapson Coal Mining Co		Colorado Springs
Wootton Turner Wootton Land & Fuel Co.		Aguilar Wootton
riospectriospect Coar Co		I I I I I I I I I I I I I I I I I I
Baldy Coal Co		Trinidad
Keystone No. 2 Bartolo Parivecchio McLaughlin James E. McLaughlin		Trinidad
Hines Hines Coal Co		Trinidad
Fisher's Peak Peak Coal Co.		Trinidad
Baldy Mountain Trinidad Coal Co.		Trinidad
Keystone No. 1 Trinidad Coal Co Baldy Mountain Trinidad Coal Co Three PinesBlack Diamond Niggerhead Coal		m : 13 1
Mining Co. Superior Brown & Bartolomeo		Trinidad
MESA COUN'	ry.	
Cameo Crand Innation Mining & Fuel Co		Denver
Book Cliff Book Cliff R. R. Co. Garfield Garfield Coal Mining Co. Palisade Palisade Coal & Supply Co. Grandview Grandview Coal Co.		Grand Junction
Garfield		Palisade Palisade
Grandview Grandview Coal Co.		Palisade
P. V. M. Sixbey		Cameo
P. V. M. Sixbey Fidel Anthony Fidel Stokes W. D. Stokes		Palisade
Anchor No. 1Anchor Coal Co		Fruita
Anchor No. 2 Anchor Coal Co		Frunta
Thomas C. F. Thomas. Riverside Riverside Coal Co. Lynch Valley Commercial Co.		Palisade
LynchValley Commercial Co.		Fruita
Black Diamond Black Diamond Coal Co		Grand Junction
Winger A. C. Richmond		Grand Junction

JEFFERSON COUNTY.

	0.1	I L' LIROUN	Zolume of			
		Method of i	ir current	gauge		
Name of	Mine	Method of i	n cubic ft.	develop	ed Railroad	
Superintendent		Ventilation				
Geo. C. McFarlan Thos. Shepherd	Golden	Fan Natural	40,000	1.1	D. & I. M. D. & I. M.	
Thos. Shepherd	Gorden	Natural		*******	D. & I. M.	
	L	A PLATA	COUNT	Υ.		
M. T. Lommasso		Fan	16,500		R. G. S.	
W. I. Gifford	Durango	Fan	25,255	0.13	R. G. S.	
F. C. Gilbert	Durango	Fan	25,255 18,700	3/16	R. G. S. D. & R. G. & R. G. S.	
W. W. Bay F. C. Pierce	Durango	Natural	800		None	
Antonio Bandino	Durango	Natural Natural			D. & R. G. & R. G. S. None	
mitomo Banamo	_				110110	
	LA	S ANIMAS	COUN	ΓY .		
Joe Haske	Primero	3 Fans	25,000	0.7	C. & W.	
			56,000 45,000	0.8		
James O'Neil	Valdez	Fan	55,000	$\frac{2.1}{1.4}$	C & W	
John Deldesso	Sopris	2 Fans	$55,000 \\ 44,000$	3.4	C. & W. C. & S. and C. & W.	
a, , a, .	26. 1		55,000	3.6		
Charles Chambers	Morley	2 Fans	53,000	1.9	A. T. & S. F.	
James Wilson	Berwind	Fan	59,000 42,000 61,000	2. 2.2	C. & C. C. & S. A. T. & S. F. A. T. & S. F., D. & R. G.	
James Wilson James Wilson	Tabasco	Fan	61,000	1.7	C. & S.	
John Shaw B. W. Snodgrass	Starkville	Fan 2 Fans	$49,000 \\ 31,000$	1.2	A. T. & S. F.	
D. W. Bliougrass	Delagua	2 rans	35,000	$\frac{1}{2}$.	and C. & S.	
James Cameron	Hastings	Fan	98,000	2.9	& S. F. C. & S. C. & S.	
W. A. Adamson	Bowen	Fan	25,000		& S. F.	
Thomas Jolly	Gray Creek	2 Fans	29,250	0.5	C. & S.	
D. D. Dodge William Morgan	Cokedale	2 Fans	32,000 22,000	0.5	D. & R. G. and C. & S. C. & W. C. & S. C. & S. C. & S. C. & S. C. & S. C. & S.	
	Sopris Forbes	Fan Fan	50,000	$\begin{array}{c} 1.6 \\ 0.7 \end{array}$	C. & S.	
J. H. Dalby	Forbes	Natural	50,000	0.7	C. & S.	
H. F. Tennant	Tollerburg	Fan	54,000	2.8	C. & S.	
J. H. Dalby H. F. Tennant H. F. Tennant H. F. Tennant O. C. Cook	Ludlow Rapson	Fan Fan	8,400 4,700		C. & S. C & S	
O. C. Cook	Brodhead	Fan	23 100		C. & S.	
Alex Sillelus	Trinidad	Fan	17,000 35,000 65,000 6,202		C. & S.	
Charles H. Peet	Aguilar Ludlow	Fan Fan	35,000 65,000	2.	C. & S.	
F. McDermott H. A. Mallot	Rugby	2 Fans	6,202		C. & S. and D. & R. G.	
A. G. Jelliyes	Trinidad	Fan	44.000		C. & S. C. & S. and D. & R. G. C. & S. and D. & R. G. A. T. & S. F. and C. & S. D. & R. G. and C. & S.	
Peter Mortenson Harry Smith	Rapson	Fan	25,000 25,000		D. & R. G. and C. & S.	
Andrew Boldini	Aguilar Wootton	Furnace Furnace	4,000		C. & S. A. T. & S. F.	
Joe Smith	Trinidad	Furnace	9,000		None	
W. O. Sherman B. Parievecchio	Trinidad	Natural			None None	
J. E. McLaughlin	Trinidad Trinidad	Natural Natural	*******		None	
J. E. McLaughlin W. G. Hines R. Marsh	Trinidad	Natural			None	
R. Marsh	Trinidad Trinidad	Fan Natural	6,400		None None	
G. W. Haigh G. W. Haigh	Trinidad	Natural			None	
					_	
J. E. McLaughlin Mark Brown	Trinidad Trinidad	Natural Natural	******	*******	None None	
LAMIN DIOWII	Limitada		HNDV	*******		
MESA COUNTY.						
Geo. W. McNeil D. B. Wright	Cameo	Fan	27,000		C. M. & D. & R. G.	
D. B. Wright Geo. Smith	Grand Junction Palisade	Natural Natural	19,800 10,000			
Henry Denman	Palisade	Natural	16,000		D. & R. G. & C. M.	
Henry Denman T. E. Llewellyn M. Sixbey	Palisade	Natural	8,000		D. & R. G. & C. M. D. & R. G. & C. M. D. & R. G. & C. M.	
M. Sixbey	Cameo	Natural	$\frac{10,000}{3,600}$	********	D. & R. G. & C. M. None	
W. D. Stokes	Fruita Palisade	Natural Natural	6,000			
C. W. Smith	Fruita	Natural	3,240		None	
J. B. Moore	Fruita	Natural	3,600		None	
M. Sixbey Anthony Fidel W. D. Stokes C. W. Smith J. B. Moore C. F. Thomas E. R. Davis	Grand Junction Palisade	Natural Natural	1,000		None None	
David Bearce	Fruita	Natural	3,600	*******	None	
A. M. Morrison A. C. Richmond	Grand Junction	Natural	7,500		None	
A. C. Richmond John French	Palisade Grand Junction	Natural Natural	13,600 3,000		D. & R. G. & C. M. None	
Jones I Tolloll	Grand Junetion	Natural	0,000	*******	110110	

MOFFAT COUNTY.

Name of Mine Name of Company
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MONTEZUMA COUNTY. Spencer W. H. French Mancos Mancos Mancos Fuel Co. Mancos Mancos Mancos Fuel Co. Mancos Todd G. S. Todd. Cortez Mitchell Springs J. F. Mowry. Cortez MONTROSE COUNTY. Missouri Gus Winkler Nucla Knauss Wm. J. Oberding Nucla Cloverdale Marcus Peterson Nucla Specht Geo. T. Specht. Nucla PITKIN COUNTY. *Spring Gulch Colorado Fuel & Iron Co. E. H. Weitzel Pueblo Placita Rapini Bros. Redstone *Mine abandoned. RIO BLANCO COUNTY Black Diamond Reynolds & Babcock. Meeker Lion Canon T. E. Linderman Meeker Furifield Meeker Furifield Meeker Sulphur W. R. Crawford Meeker Sulphur W. R. Crawford Meeker Sulphur W. R. Crawford Meeker Follard J. D. Moog. Meeker Pollard J. D. Moog. Meeker Harris Colorado & Utah Coal Co. R. M. Perry. Denver +Moffat No. 1 Moffat Coal Co. R. M. Perry. Denver +Harris Colorado & Utah Coal Co. W. J. Murray. Denver Harris Colorado & Utah Coal Co. W. J. Murray. Denver Pinnacle Victor-American Fuel Co. W. J. Murray. Denver Yampa Valley No. 1 Yampa Valley Coal Co. John Connell Denver Yampa Valley No. 1 Meel Coal Co. Geo. M. Sparling. Denver Hayden Hayden Bros. John Meelel Denver Hayden Hayden Hayden Denver Hayden Hayden Hayden Hayden Denver Hayden Hayden Hayden Coal Co. Denver Hayden Pederal Coal Mining Co. Denver Hayden Pederal Coal Mining Co. Denver Hayden Routt Pinnacle Coal Co. Geo. M. Sparling. Denver Hayden Routt Pinnacle Coal Co. Geo. M. Miller Denver Hayden Routt Pinnacle Coal Co. Geo. M. Miller Denver Hayden Routt Pinnacle Coal Co. Geo. H. Miller Denver Hayden Routt Pinnacle Coal Co. Geo. H. Miller Denver Thederal Federal Coal Mining Co. Cortes Routt Pinnacle Coal Co. Geo. M. Sparling. Denver Fledertic Routt Electric Coal Co. Geo. H. Miller Denver Twenty Mile Thomas Chargo Diamond Tony Todoroff Good Geo. Albert Allen Denver WELD COUNTY. *Known as Oak Hills. †Known as Oak Hills. fMine abandoned. *Known as Oak Hills. †Known as Oak Hills. fMine abandoned.
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Russell W. E. Russell Coal Co. Denver
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Frederick Frederick Fuel Co. Geo. T. Peart Denver
Firestone Louisville Coal & Land Co. Firestone
Shamrock Shamrock Coal CoErie
Grant
Ideal
EurekaUnited Collieries CoAndrew WalkerErie
White Ash W. C. Bedlien La Salle
Peerless Peerless Coal Co. Frederick
StateState Coal Co
Now Washington David Brimble St Vrain
New Washington David Brimble

^{*}Mine closed down.

MOFFAT COUNTY. Volume of Water

			Volume of	Water	
Name of	Mine	Method of	air current in cubic ft. per mine	gauge develope	ed Railroad
Superintendent Joseph Collom	Postoffice Axial	Ventilation Natural			
Joseph Collom					None
		NTEZUM			
W. H. French J. R. Freeman G. S. Todd	Mancos Mancos	Natural Natural	2,800		None R. G. S.
G. S. Todd J. F. Mowry	Cortez	Natural			None
J. F. MOWLY	Cortez	Natural			None
		ONTROSE		Υ.	
Gus Winkler Wm. J. Oberling	Nucla Nucla	Natural Natural	6,000		None None
Marcus Peterson	Nucla	Natural			None
Geo. T. Specht	Nucla	Natural	~~~~~	•••••	None
			COUNTY.		
H. J. Elliott Joe Rapini	Gulch Redstone	Fan Natural	$12,630 \\ 17,000$	*******	C. M. D. & R. G.
occ map		2.00000	21,000	*******	D. & II. G.
	RI	O BLANC	CO COUNT	Υ	
E. C. Babcock	Meeker	Natural	7,500		None
T. E. Linderman F. W. Fairfield	Meeker Meeker	Natural Natural			None None
F. W. Fairfield W. R. Crawford J. D. Moog	Meeker Meeker	Natural Natural	***********		None
J. D. Moog		T. 0 T		*******	None
Tohn Alexander			COUNTY.	1/	T 0 0 7
John Alexander John Alexander	Oak Creek Oak Creek	Fan Fan	50,000 60,000	1/2 1/2	D. & S. L. D. & S. L.
John Alexander B. A. Harris Wm. Burt	Mt. Harris Oak Creek	Fan Fan	50,000 45,000	1.	D. & S. L. D. & S. L. D. & S. L. D. & S. L.
M. Padfield	Pallas	Fan			
			10,800		D. & S. L.
M. Padfield W. S. Clark	Pallas Bear River	Fan Fan	$\frac{10,800}{21,600}$		D. & S. L. D. & S. L.
W. S. Clark D. P. McNeil C. P. O'Neil	McGregor	Fan	30,800		D. & S. L.
S. D. Domenico	Oak Creek Mt. Harris Oak Creek	Fan Fan Fan	$14,400 \\ 2,400$		D. & S. L. D. & S. L.
Joseph Mathews Ralph Wooden	Oak Creek Pool	Fan Fan	14,190		D. & S. L. D. & S. L.
John McDowell	Junction City	Natural			D. & S. L. D. & S. L. D. & S. L.
D. W. Jones C. C. White C. C. White	Oak Creek Coalview	Furnace Natural			D. & S. L. D. & S. L.
	Oak Creek	Natural Natural			D. & S. L.
Tony Todoroff H. Laverty	Steamboat Spgs. Pool	Natural			D. & S. L. D. & S. L.
H. Laverty	Steamboat Spgs Coalview	Natural Natural	******		D. & S. L. D. & S. L.
***************************************	Pool	Natural			None None
		WELD (
Henry Thomas	Erie Lafayette	Fan Fan	70,000	0.9	U. P. C. B. & Q.
Jas. Etchell C. W. Smith F. E. Smith	Dacona	Fan	50,000		U. P.
John E. Daily	Firestone Frederick	Fan Fan	$\frac{8,820}{14,700}$		U. P.
J. C. Williams John Douglas	Frederick	Fan	45, 000	0.9	U. P. U. P.
Thos Morgan J. C. Williams	Firestone Erie	Fan Fan	$\frac{2,800}{16,500}$		U. P. U. P.
J. C. Williams	Frederick Erie	Fan Fan	16,500 26,500 20,300	0.5	U. P. None
Edward Walker Edward Walker	Erie	Fan	8,400		None
W. C. Bedlien Emil Debouter	La Salle Frederick	Furnace Steam Jet	8,520		None None
Dave Lewis	Erie	Natural	3,800		None
David Brimble John Wagner	St. Vrain La Salle	Fan Natural	**********		U. P. None



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